

241300-54-T (Vol. III)

Appendix for
P-3/UWB Flight
Portage, Maine
27-28 June 1995

Volume II

19990920 024



ERIM

P.O. Box 134001
Ann Arbor, MI 48113-4001

28 Jun 1995
Tape: E1440

Post-line Data Sheet
Line 25
Mission: Presque Isle DAY 3

Time: 179:00:52:00
Pass 16
Req. # 13

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9900 ft s.d. =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	30.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	51.0	63.0	52.0	67.0
End Sq:	90.0°	RMS Video (%FS)	29.2	13.6	21.4	13.8

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:30.71	W 68:44.60	Main Target: IE
Start:	N 46:41.11	W 68:35.93	Mocomp Point:
End:	N 46:49.77	W 68:28.66	Lat: N 46:44.12
From:	N 31:49.89	W 78:14.04	Long: W 68:28.98
To:	N 60:12.77	W 51:51.23	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 250.7 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTL1U2B	RX Chirp Filename: CRL1N0A

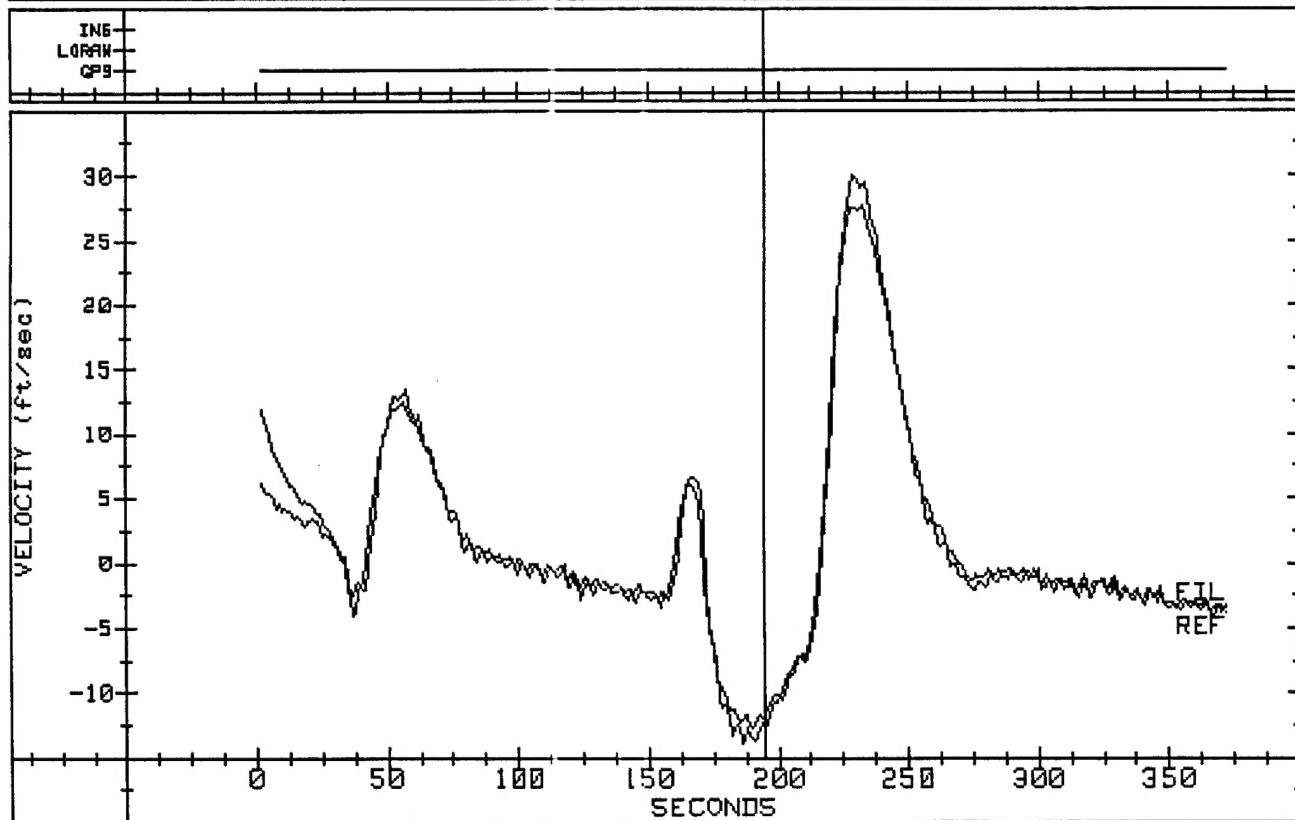
Ave Ref Vel -> 3.0 fpm (s.d.= 9.8)
Ave Fil Vel -> 3.2 fpm (s.d.= 9.3)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 5263 ft	(2)
C: -70.0	Pitch: 0.0°	Ending: 6520 ft	(2)
P: 39.7			

Vel Bias	CAI Atten	LINE Map Time (UCT)
X: 1024.0	X: 63.8 dB	Start: 00:52:00
Y: -463.0	L: 63.8 dB	End: 00:54:41
Z: 6435.0	C: 63.8 dB	

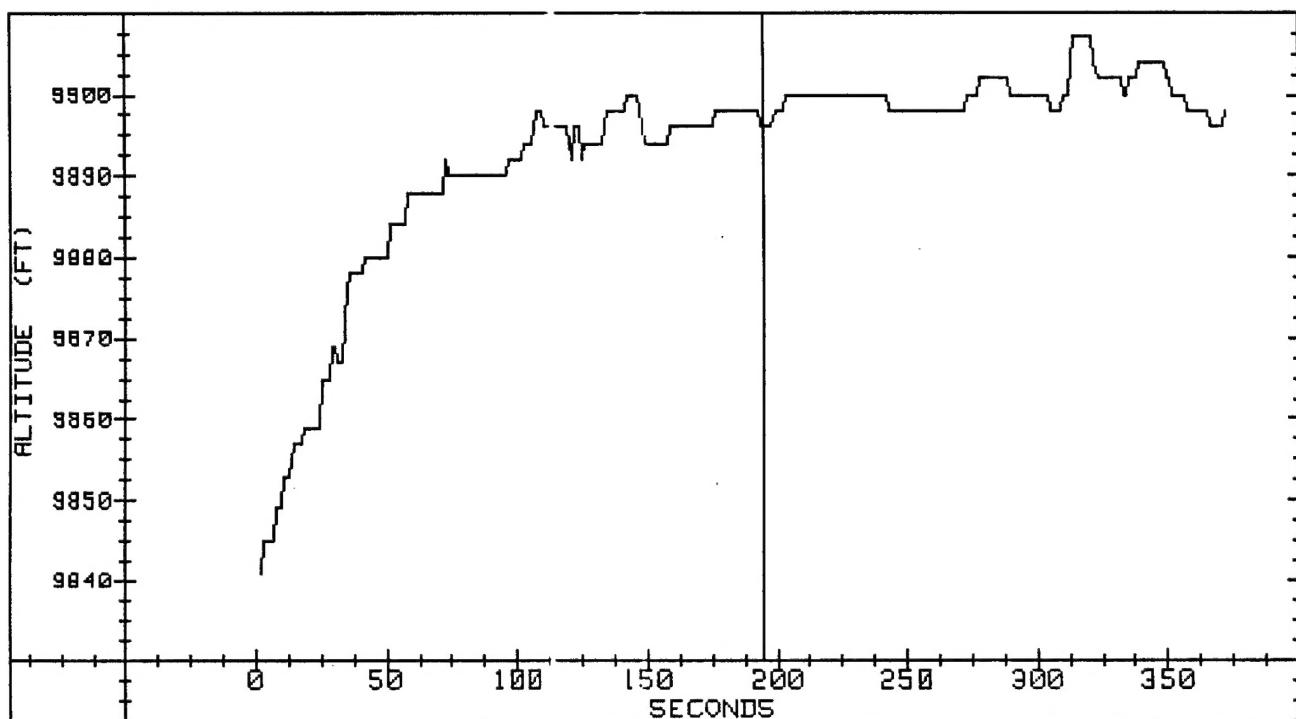
Mocomp Counters	CPA (UCT): 00:00:00
Start: 956073 000E96A9h	Alt: 0 ft (GPS)
End: 983072 000F0020h	Lat: N 0:00: 0
	Lon: E 0:00: 0

FILTERED vs. REF. VELOCITY
DAY 179 TIME 0:48 PASS 16



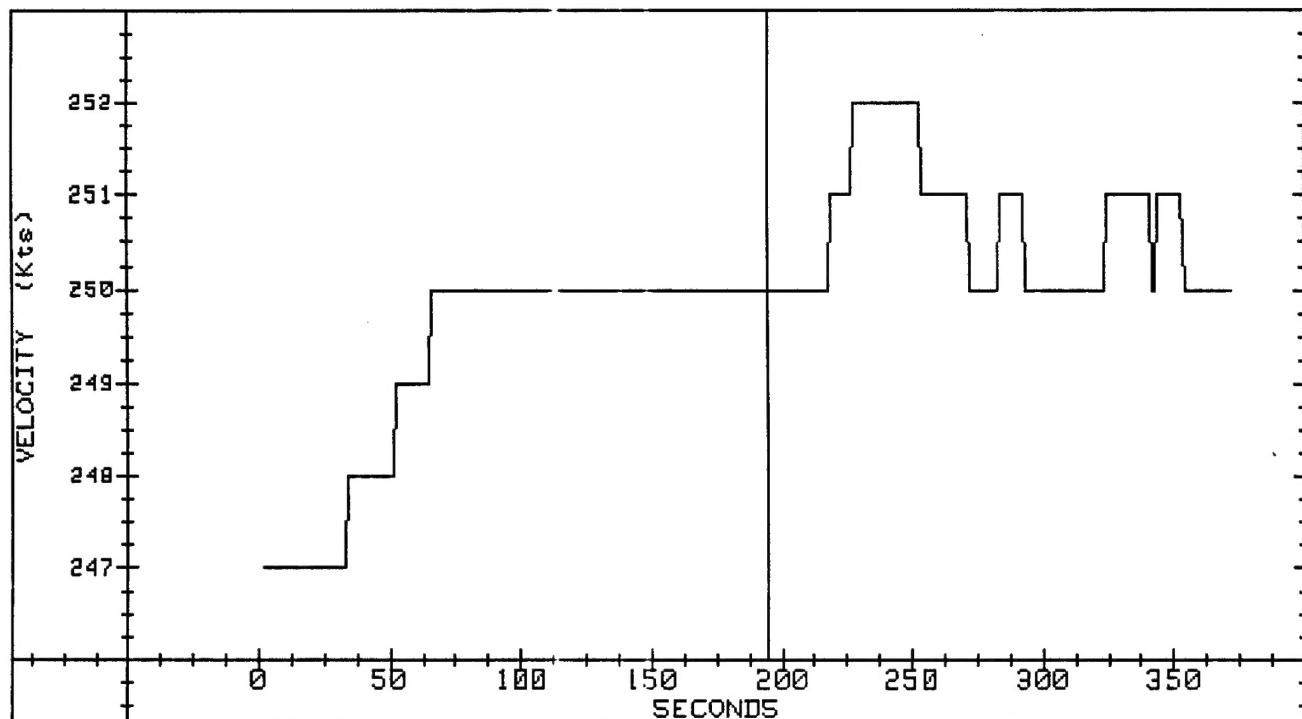
BARO ALTITUDE

DAY 179 TIME 0:48 PASS 16 m= 9900, sd= 2.45021



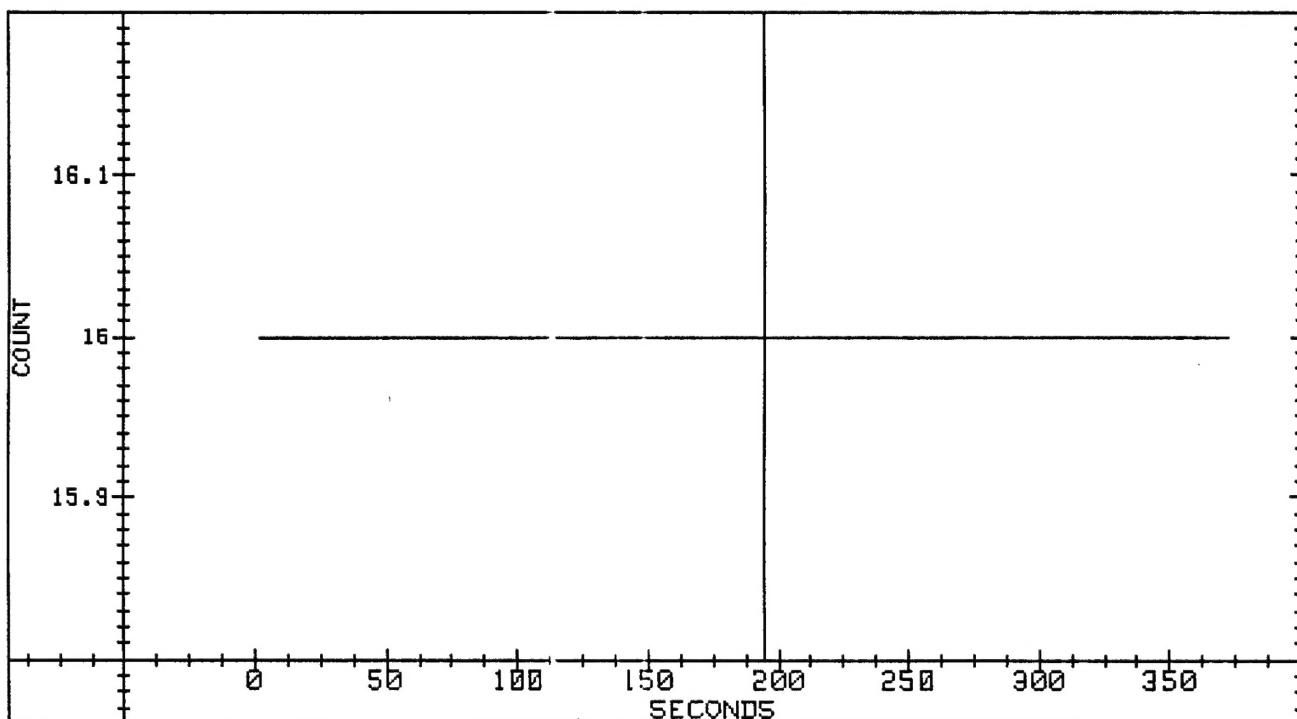
INS GROUND SPEED

DRY 179 TIME 0:48 PRSS 16 m- 250.7, sd- .724093



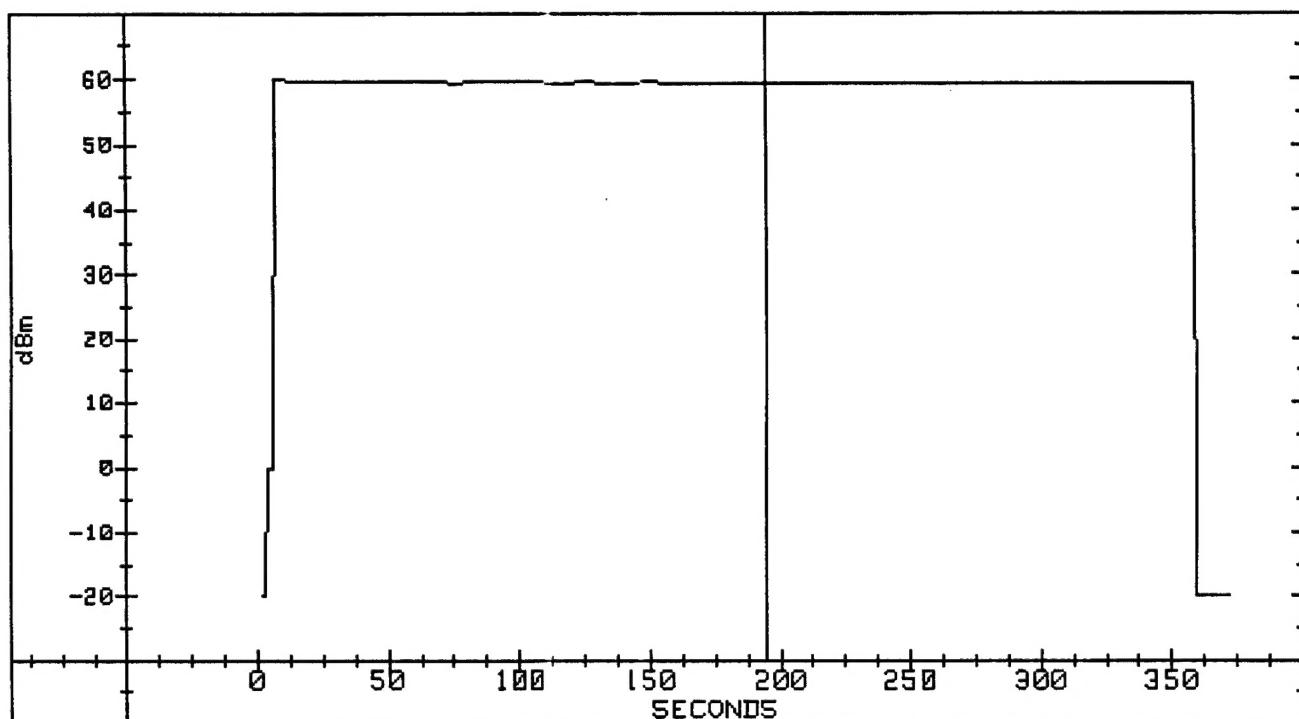
PASS NUMBER

DAY 179 TIME 0:48 PASS 16 m= 16, sd= 0



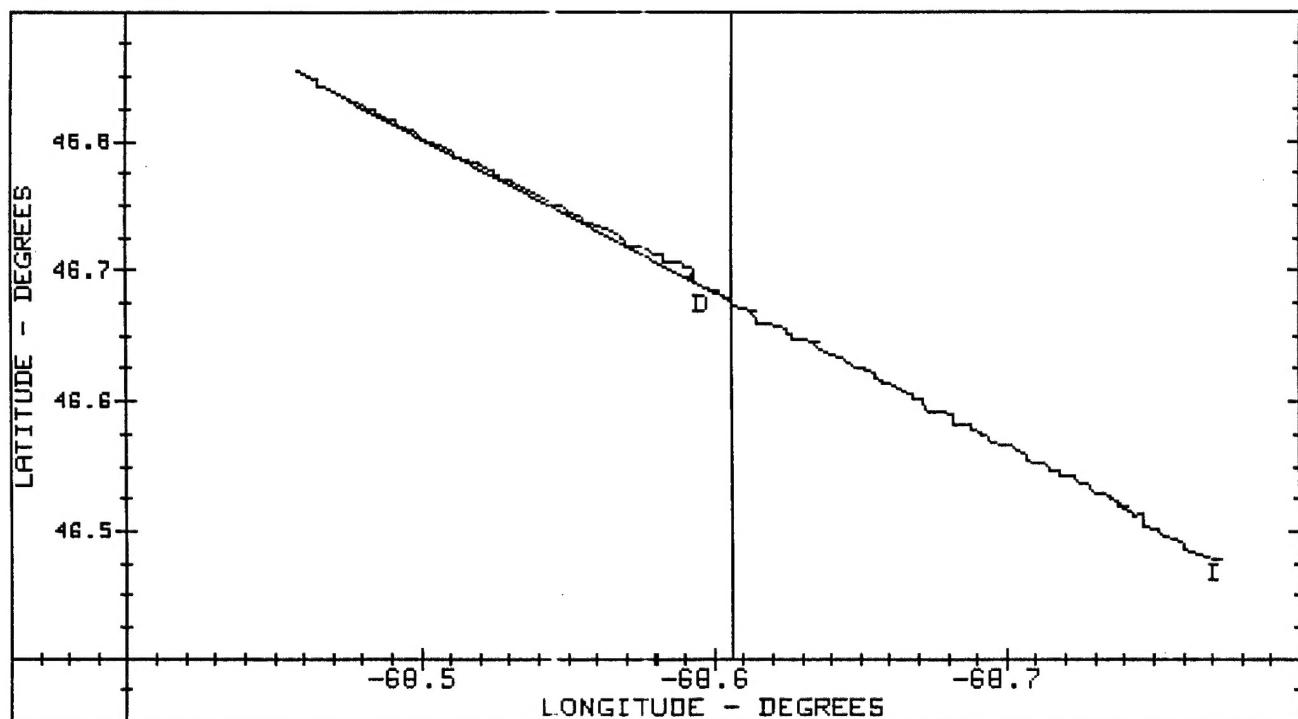
P Band Power

DAY 179 TIME 0:48 PASS 16 m= 52.5, sd= 22.2979



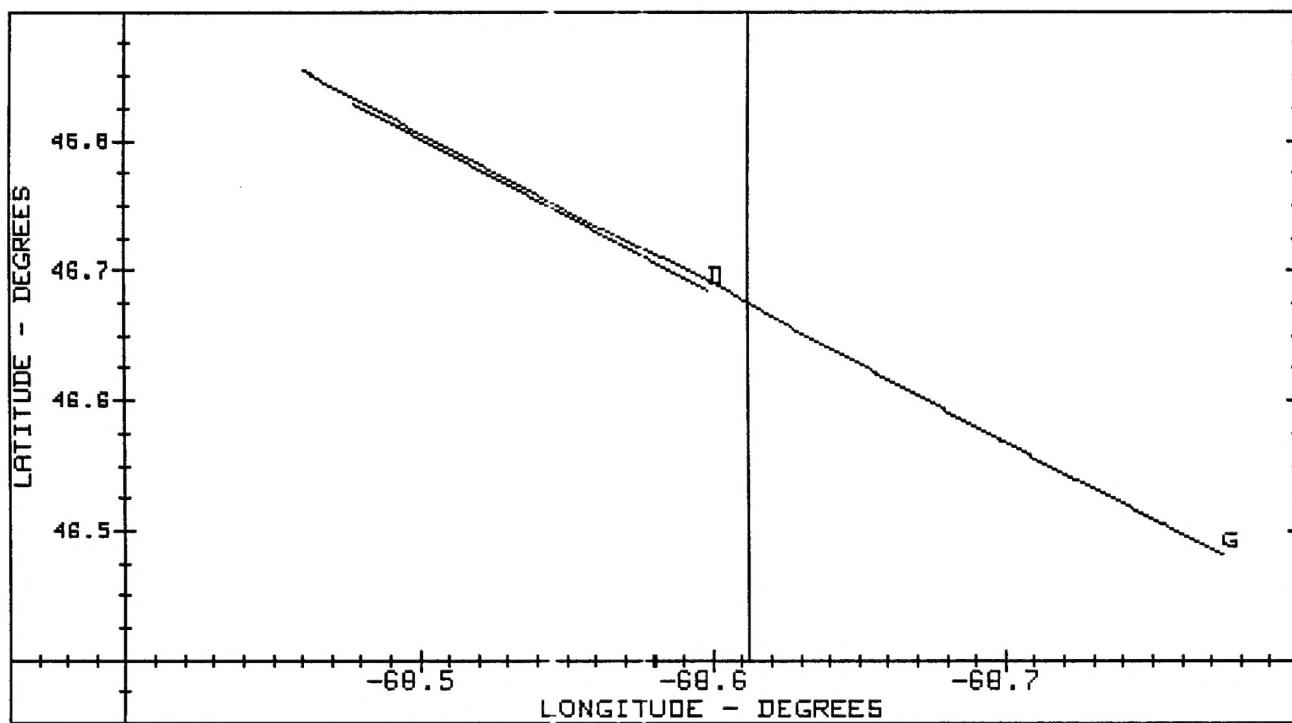
INS AIRCRAFT POSITION

DAY 179 TIME 0:48 PASS 16



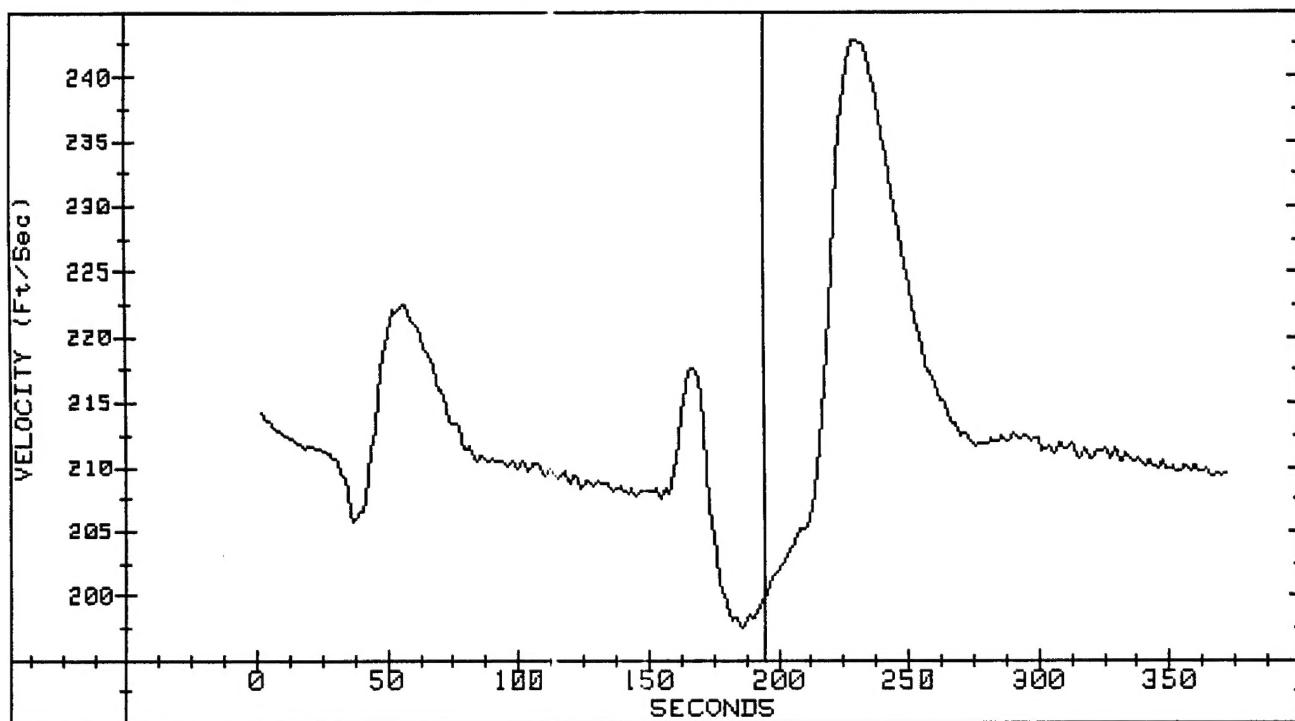
GPS AIRCRAFT POSITION

DAY 179 TIME 0:48 PASS 16



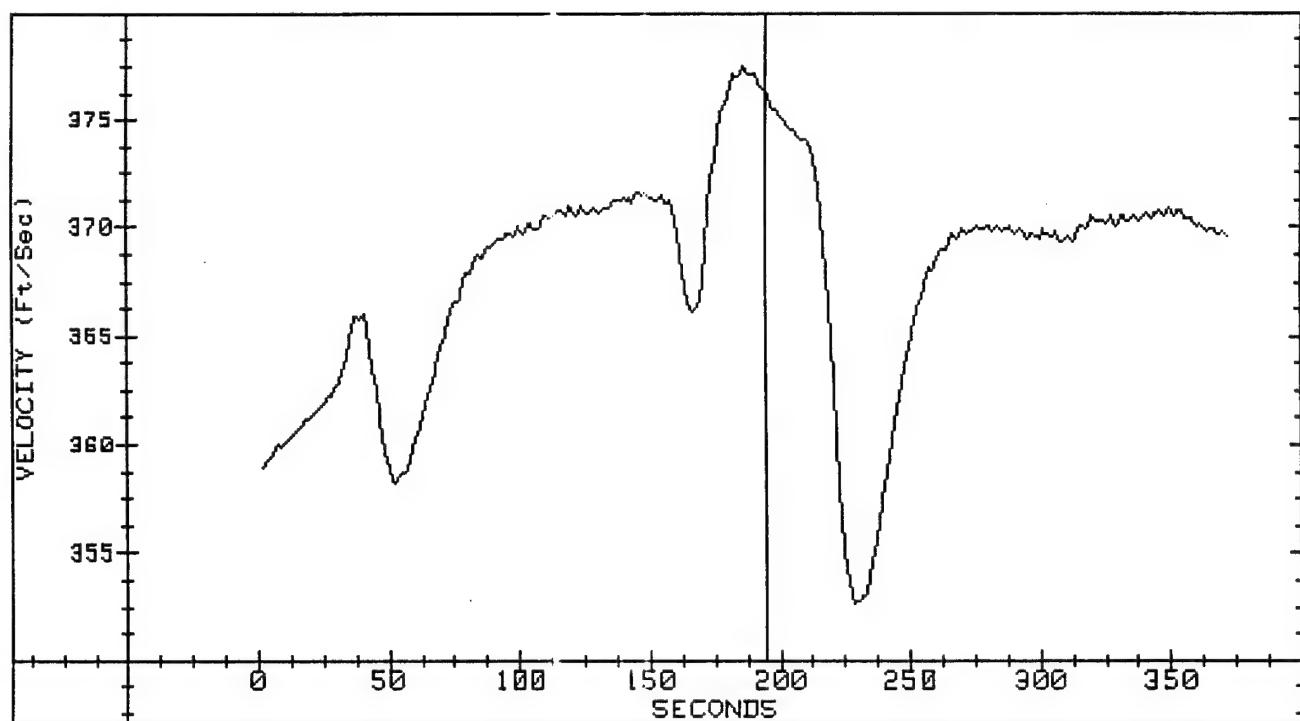
GPS V_B

DAY 179 TIME 0:48 PASS 16 m= 216.4, sd= 9.84789



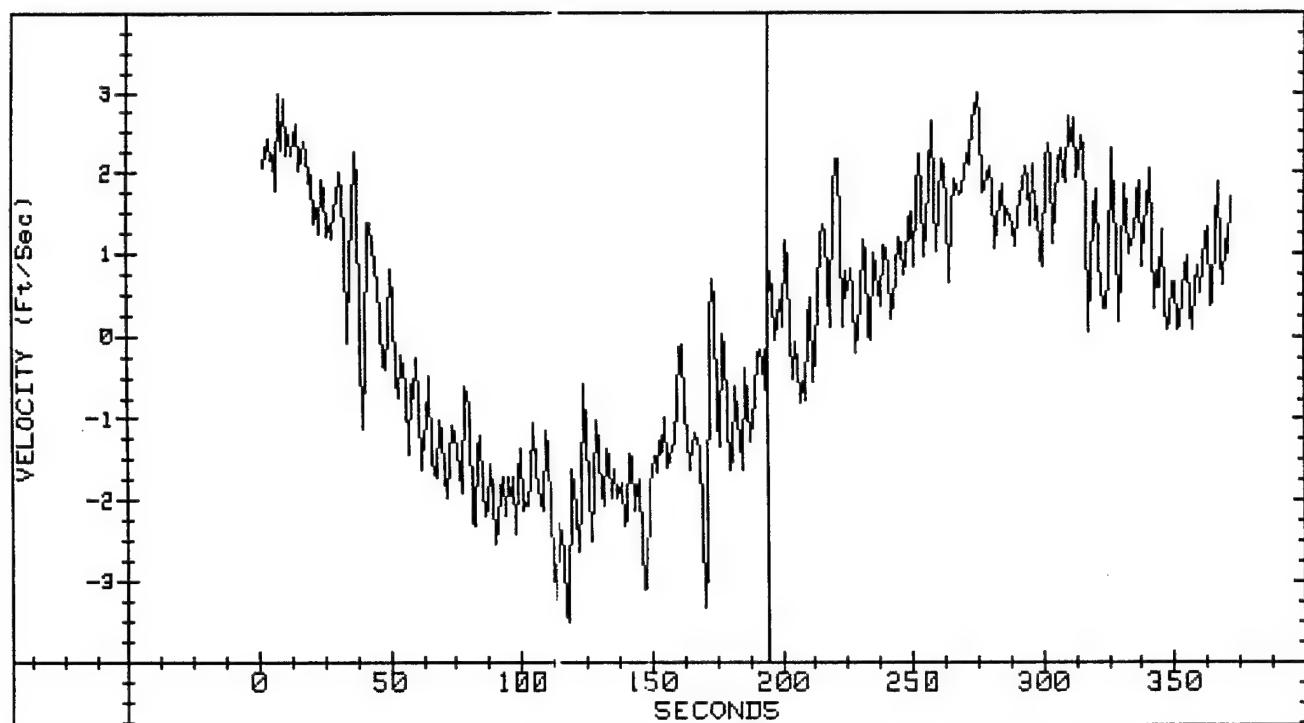
GPS Vn

DRY 179 TIME 0:48 PRSS 16 m= 367.5, sd= 5.13413



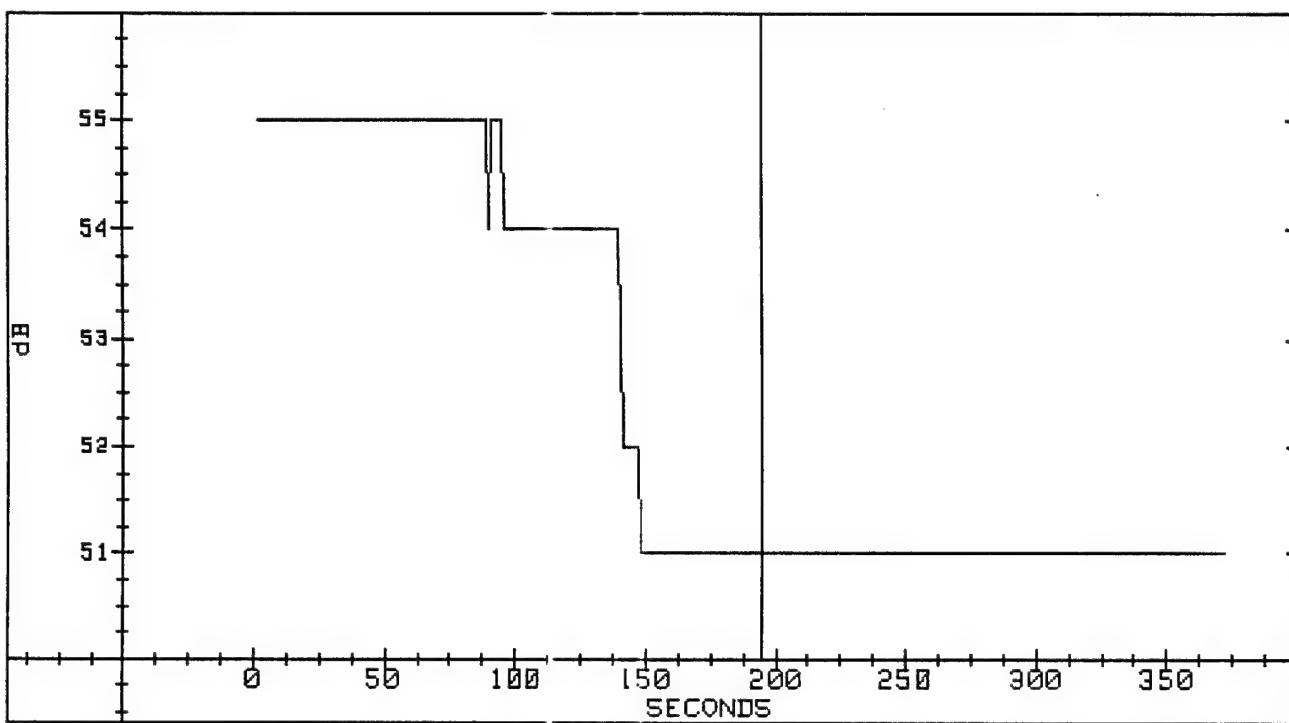
GPS Vv

DAY 179 TIME 0:48 PRSS 16 m= 1.263, sd= .721626



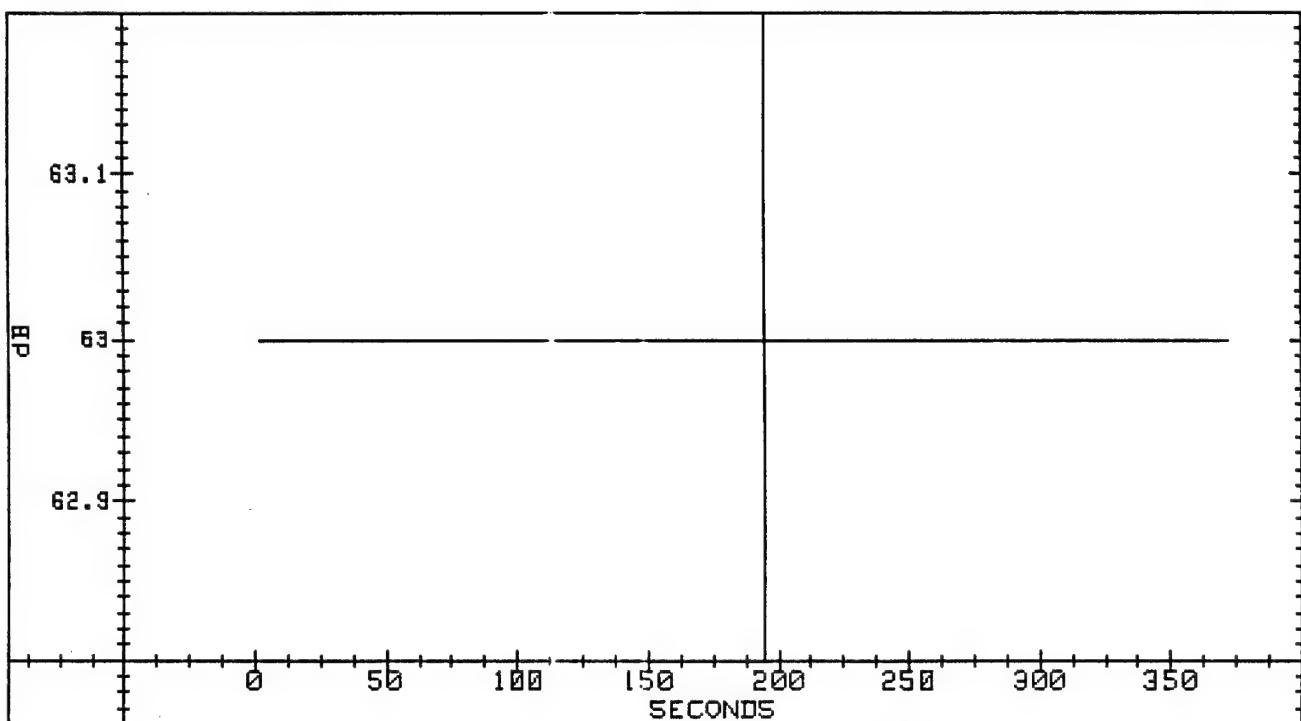
Ch1 RES Attenuation

DAY 179 TIME 0:48 PASS 16 m= 51, sd= 0



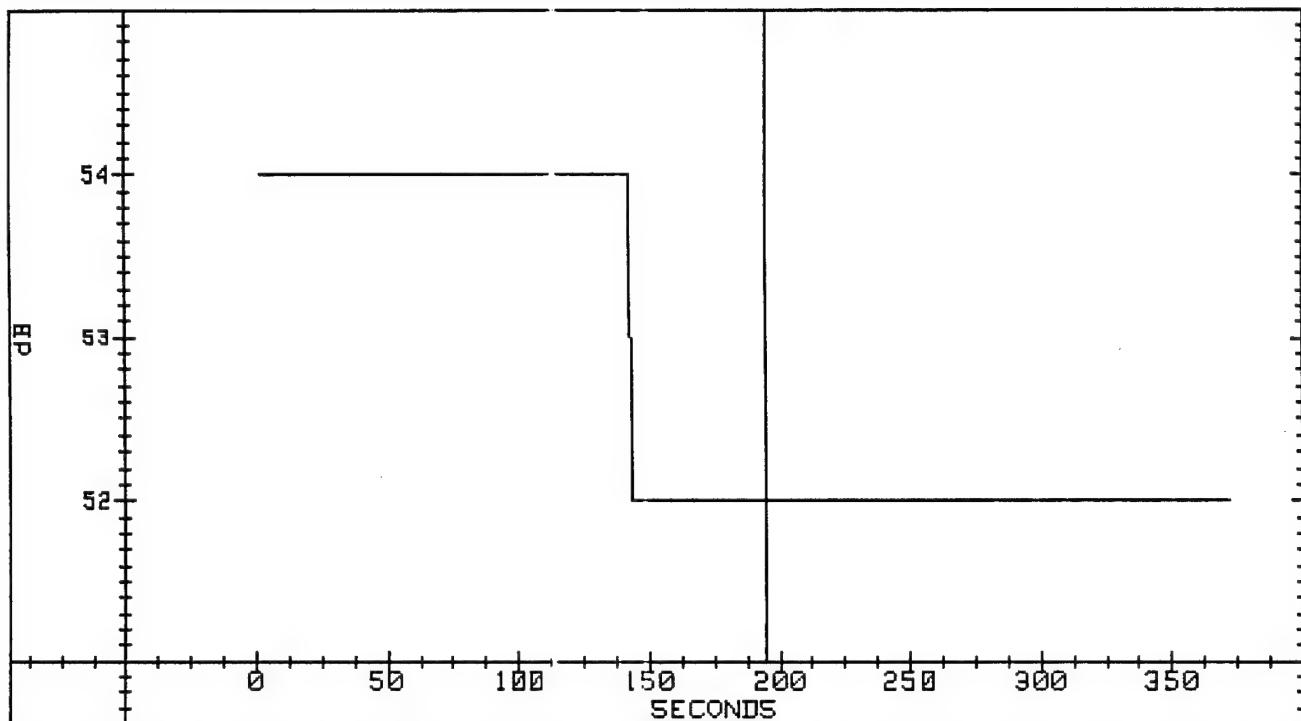
Ch2 RES Attenuation

DAY 179 TIME 0:40 PASS 16 m= 63, sd= 0



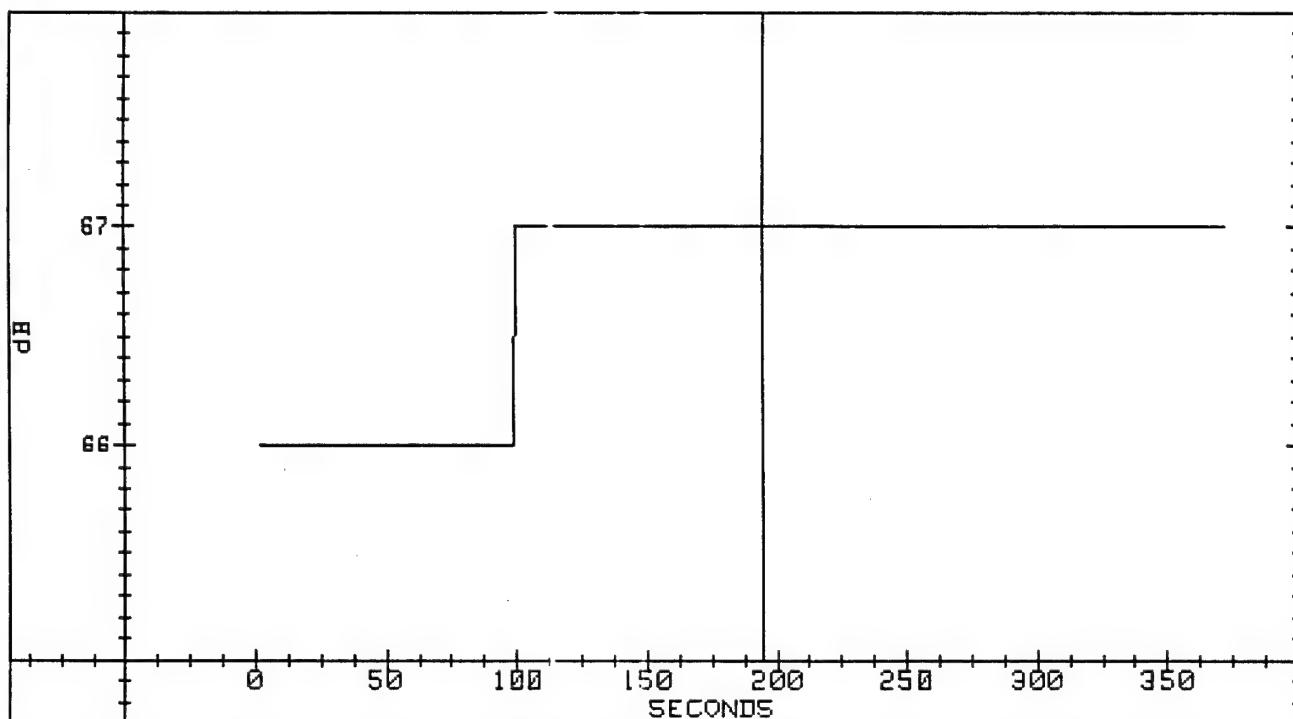
Ch3 RES Attenuation

DAY 179 TIME 0:48 PASS 16 m= 52, sd= 0



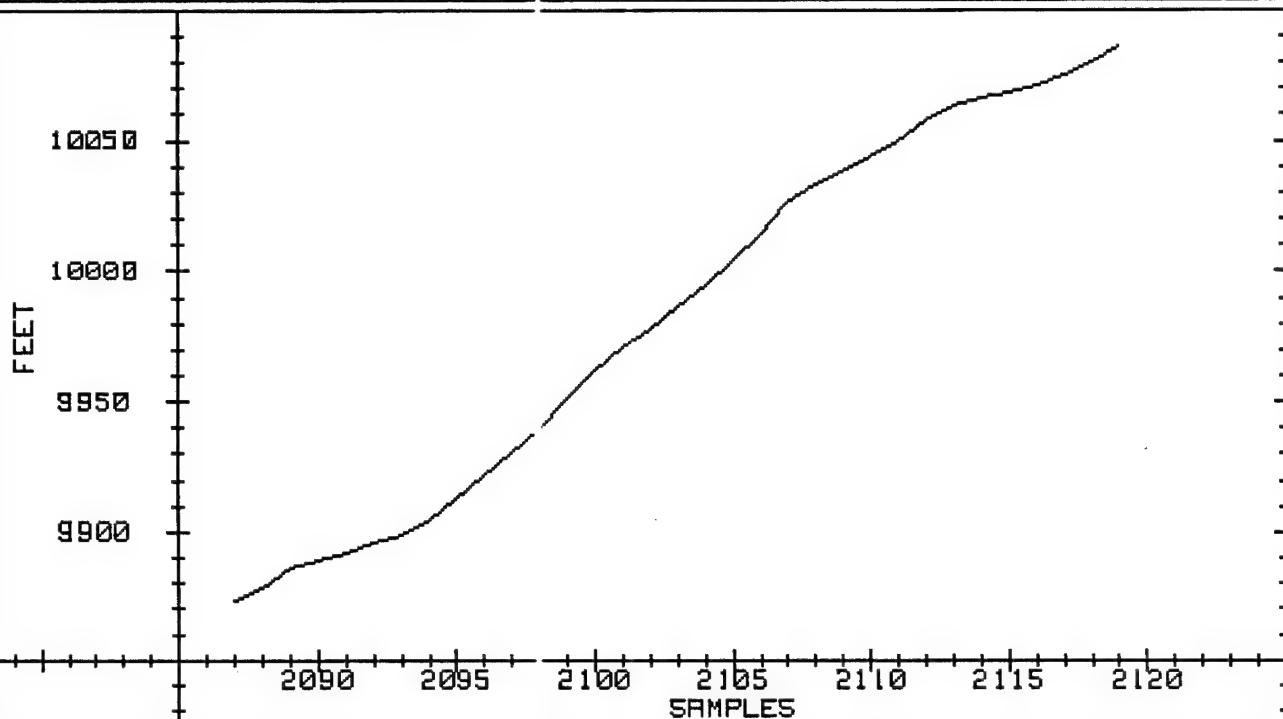
Ch4 RES Attenuation

DAY 179 TIME 0:48 PASS 16 m= 67, sd= 0

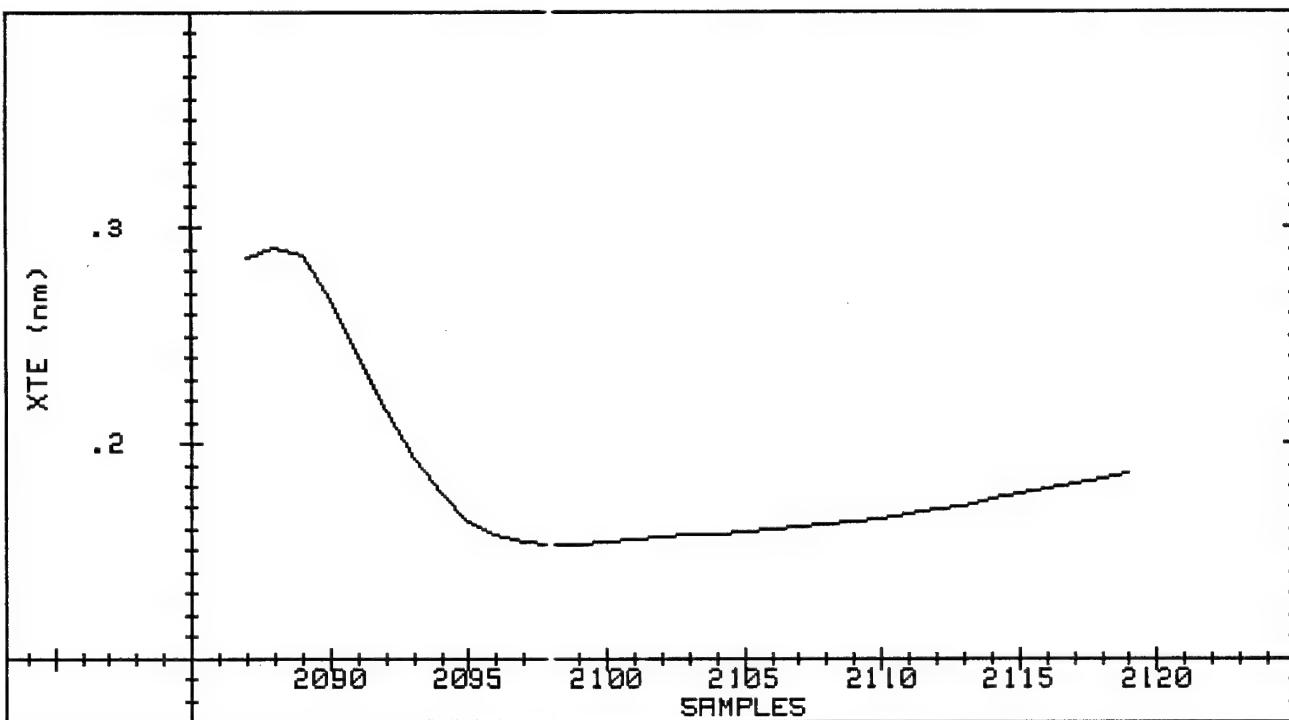


GPS ALTITUDE
MEAN= 9983.03 STANDARD DEVIATION= 70.6461
DATE: June 27, 1995 PASS 16

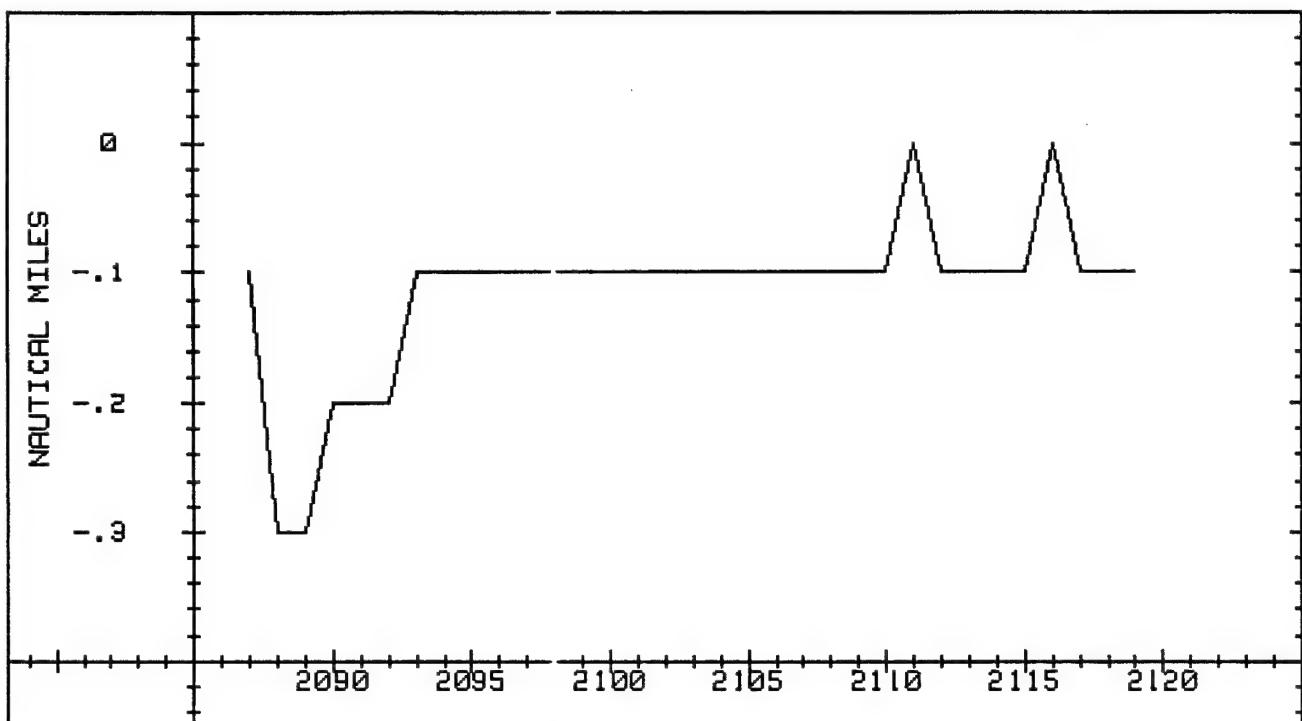
OFF
ON
BAR



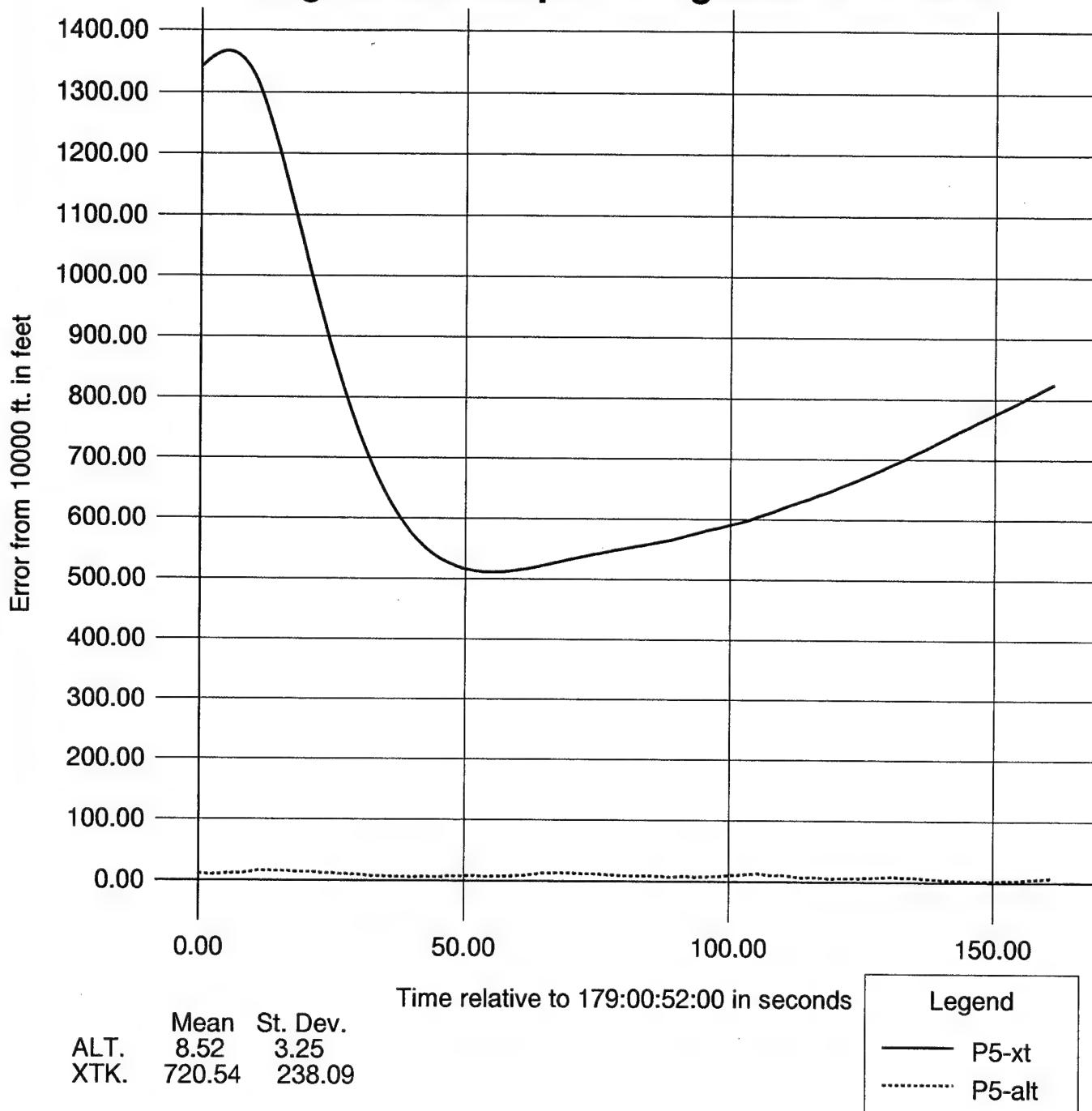
GPS Cross Track Error
MEAN= .184152 STANDARD DEVIATION= .0410322
DATE: June 27, 1995 PASS 16



INS CROSS TRACK ERROR
MEAN= -.115152 STANDARD DEVIATION= .0605083
DATE: June 27, 1995 PASS 16



**Portage, ME - June 27, 1995 - Pass 16 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero**



28 Jun 1995
Tape: E1440

Post-line Data Sheet
Line 27
Mission: Presque Isle DAY 3

Time: 179:01:02:43
Pass 17
Req.# 14

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9876 ft s.d. =	4 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slr. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.7°	35.7°	35.7°	35.7°
Des. trk:	210.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	51.0	60.0	52.0	60.0
End Sq:	90.0°	RMS Video (%FS)	26.3	14.7	17.9	18.0

WAYPOINTS

Latitude	Longitude		
Line_up:	N 46:57.51	W 68:13.24	Main Target: IE
Start:	N 46:47.13	W 68:22.02	Mocomp Point:
End:	N 46:38.47	W 68:29.28	Lat: N 46:44.12
From:	N 60:10.02	W 51:45.39	Long: W 68:28.98
To:	N 31:47.42	W 78:07.50	Tgt Trk: 0.0 Tgt Vel: 0.0
		Alt: 770.0 ft	

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 253.1 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> .3 fps (s.d.= 1.1)
Ave Fil Vel -> 3.8 fps (s.d.= 1.1)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 6533 ft	(2)
L: -70.0	Azimuth: 0.0°	Ending: 7794 ft	(2)
C: -70.0	Pitch: 0.0°		
P: 40.1			

Vel Bias	CAI Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:02:43
End: 01:05:23

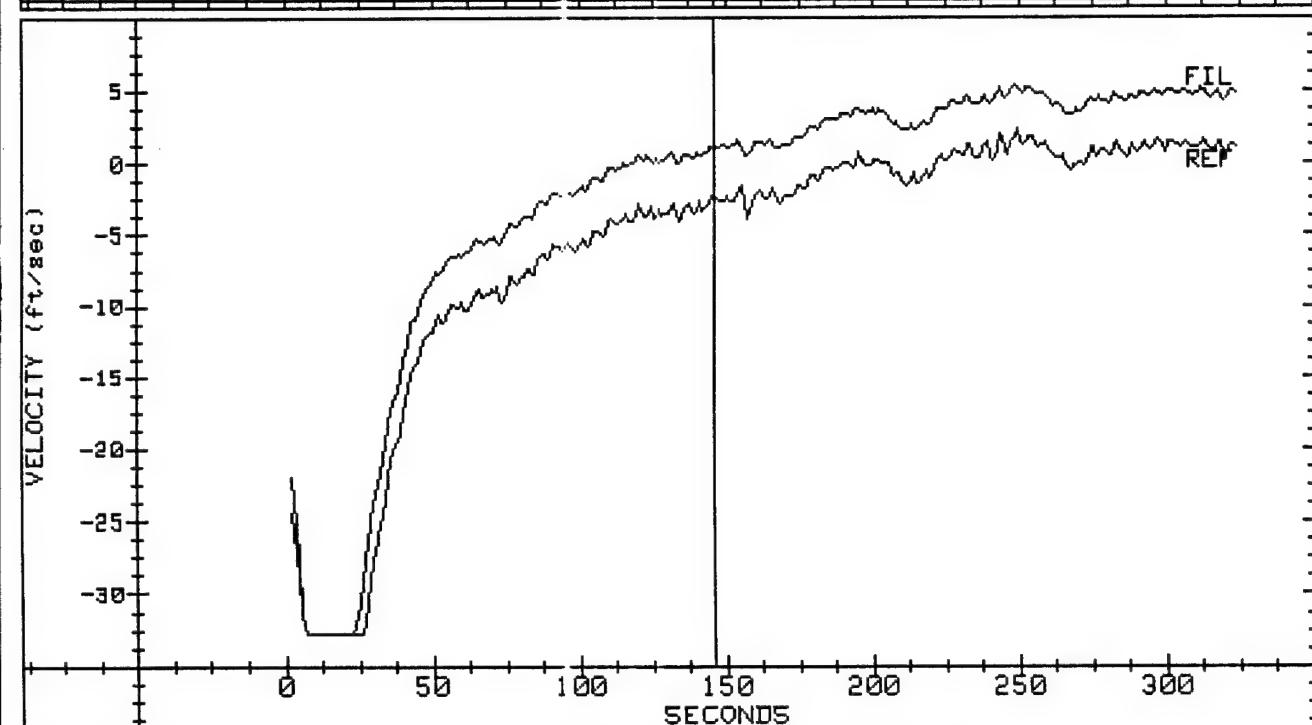
Mocomp Counters

Start: 1010451 000F6B13h
End: 1037274 000FD3DAh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

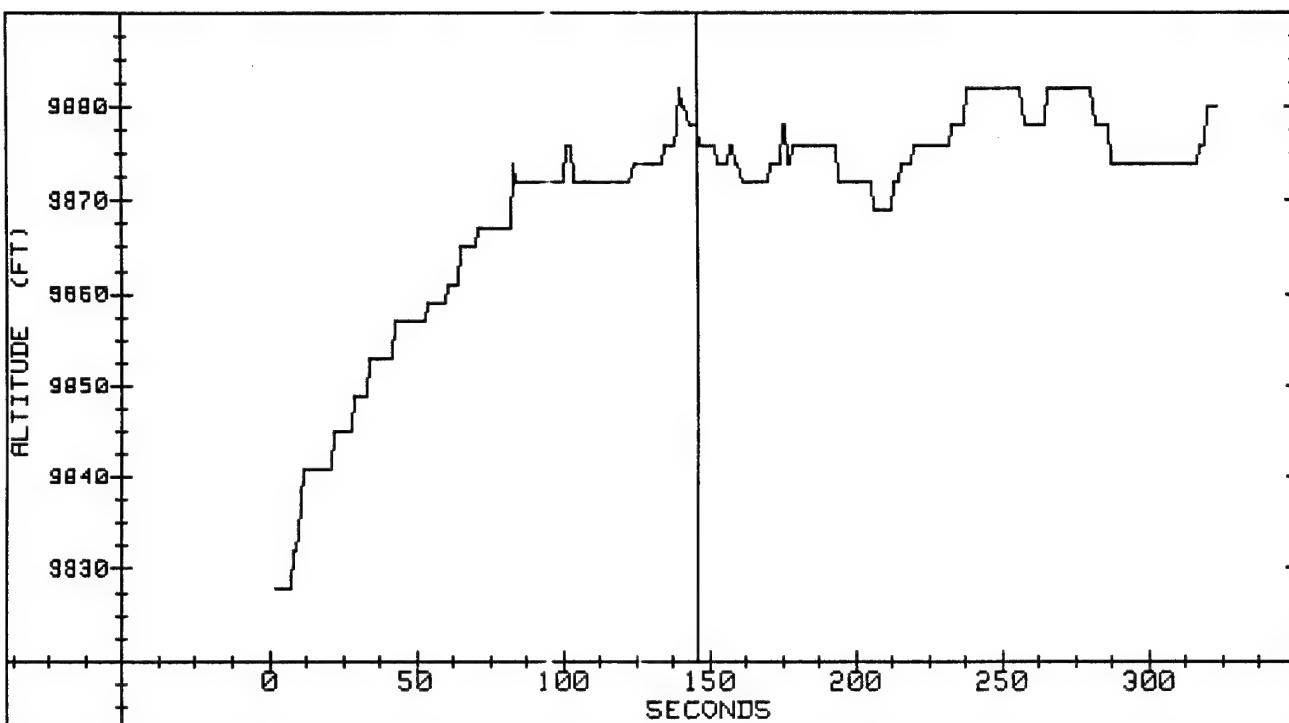
FILTERED) vs. REF. VELOCITY
DAY 179 TIME 1:0 PASS 17

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GPS



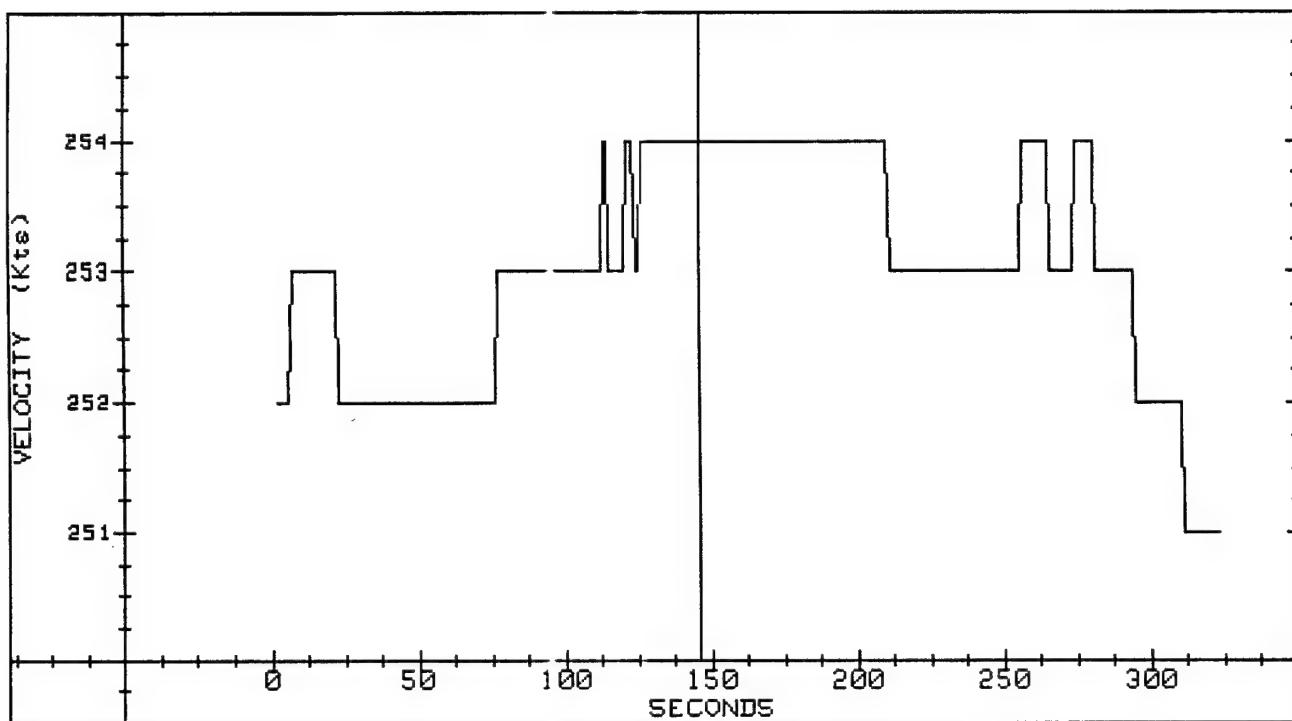
BARO ALTITUDE

DAY 179 TIME 1:0 PASS 17 m- 9876, sd- 3.74438



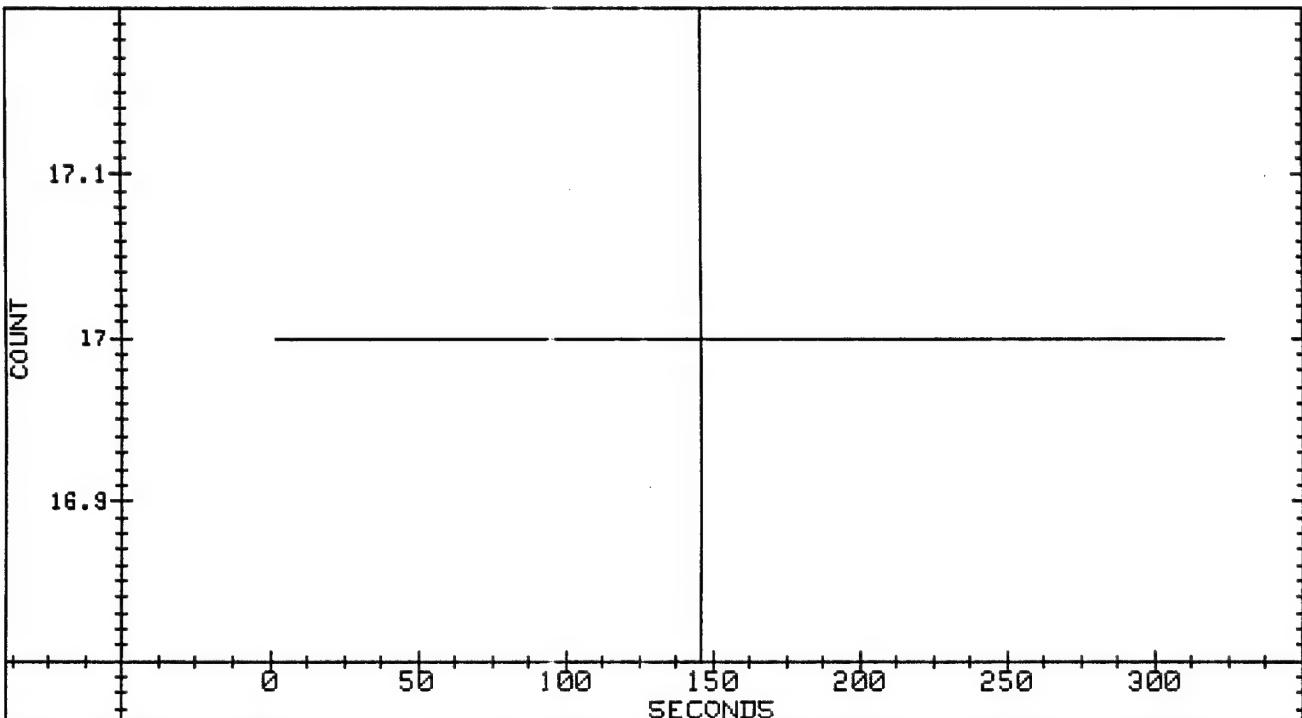
INS GROUND SPEED

DAY 179 TIME 1:0 PASS 17 m- 253.1, sd- .897596



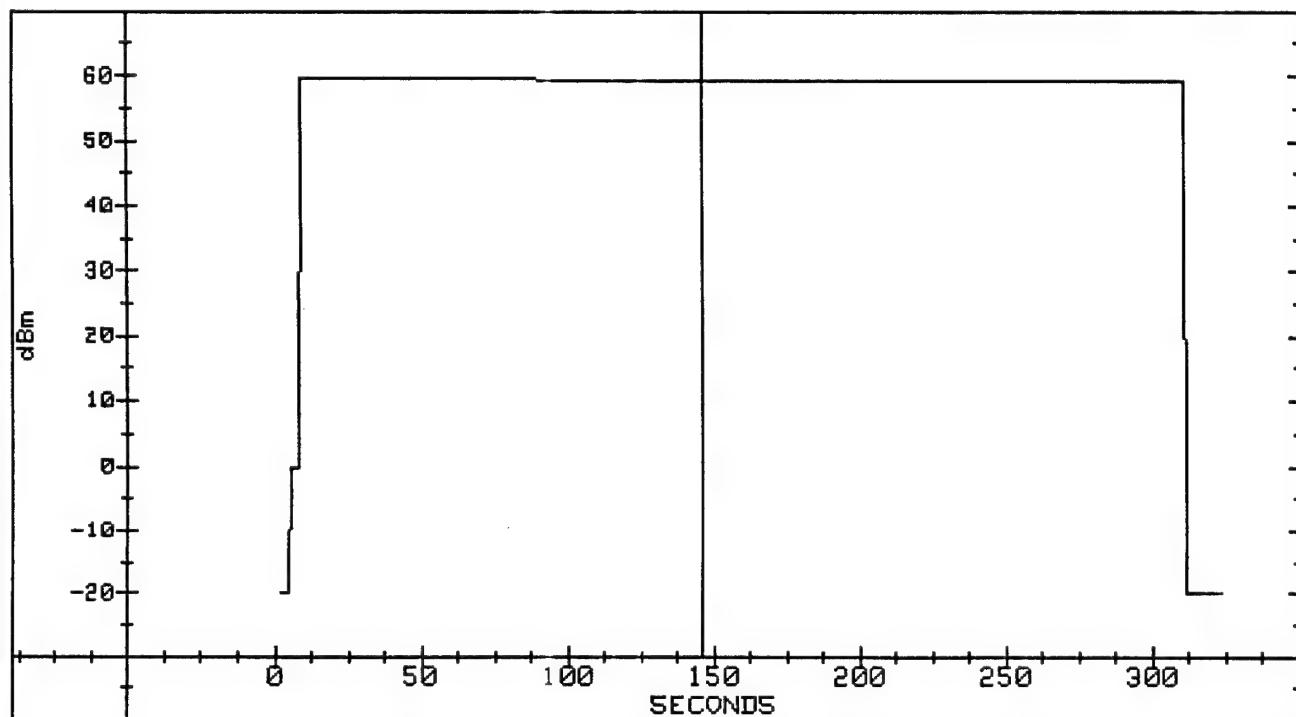
PASS NUMBER

DAY 179 TIME 1:0 PASS 17 m- 17, sd- 0



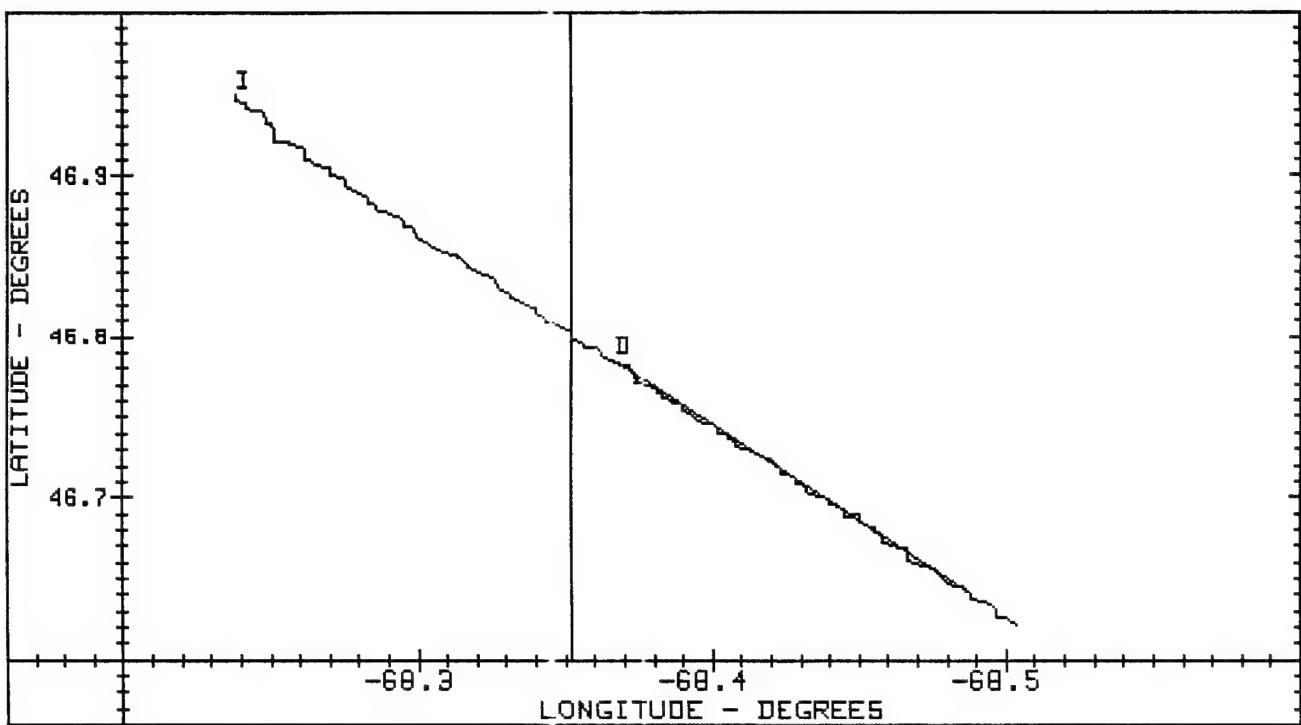
P Band Power

DAY 179 TIME 1:0 PASS 17 m= 52.92, sd= 21.6131



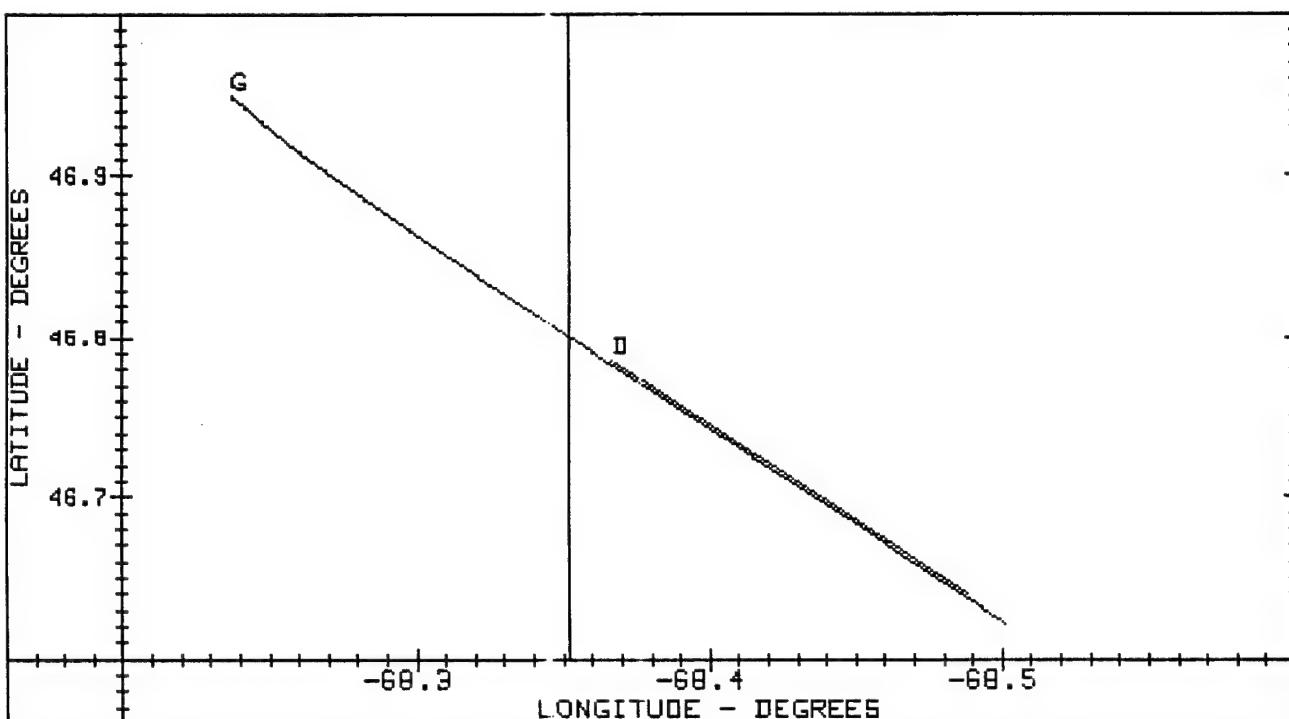
INS AIRCRAFT POSITION

DAY 179 TIME 1:0 PASS 17



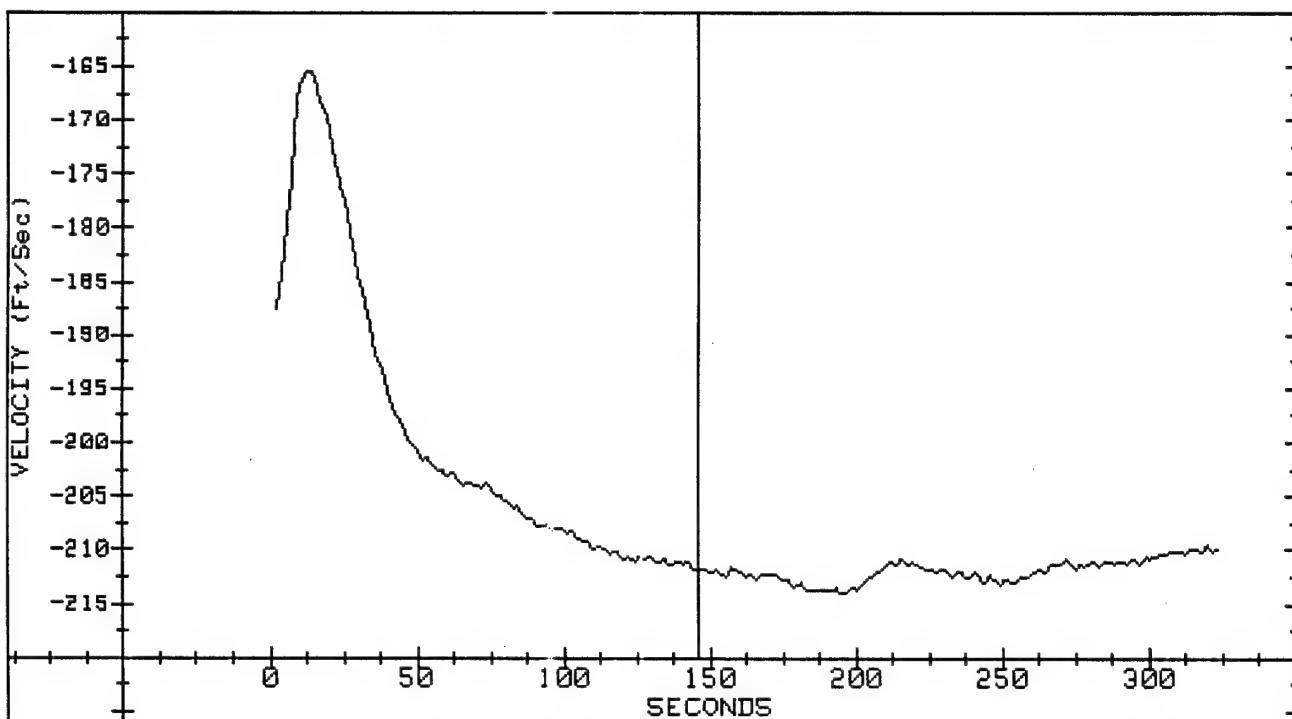
GPS AIRCRAFT POSITION

DAY 179 TIME 1:0 PASS 17



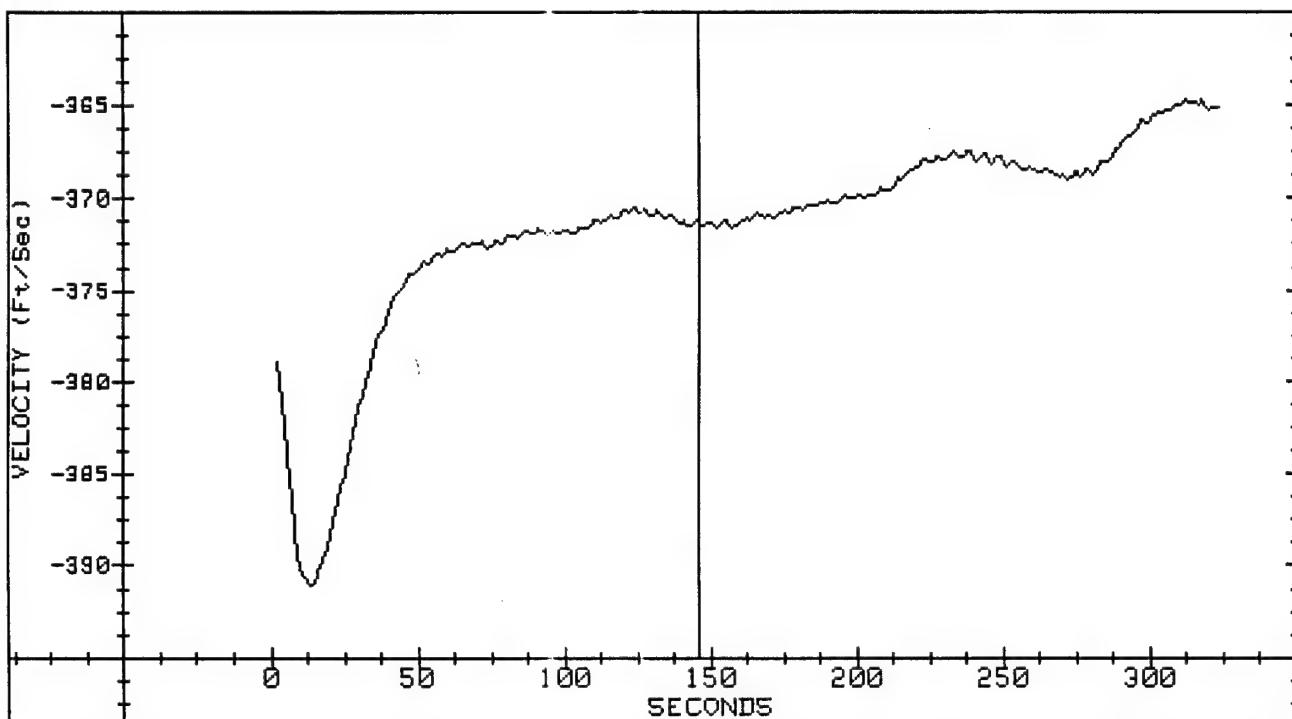
GPS Ve

DAY 179 TIME 1:0 PASS 17 m= -211.9, sd= 1.10270



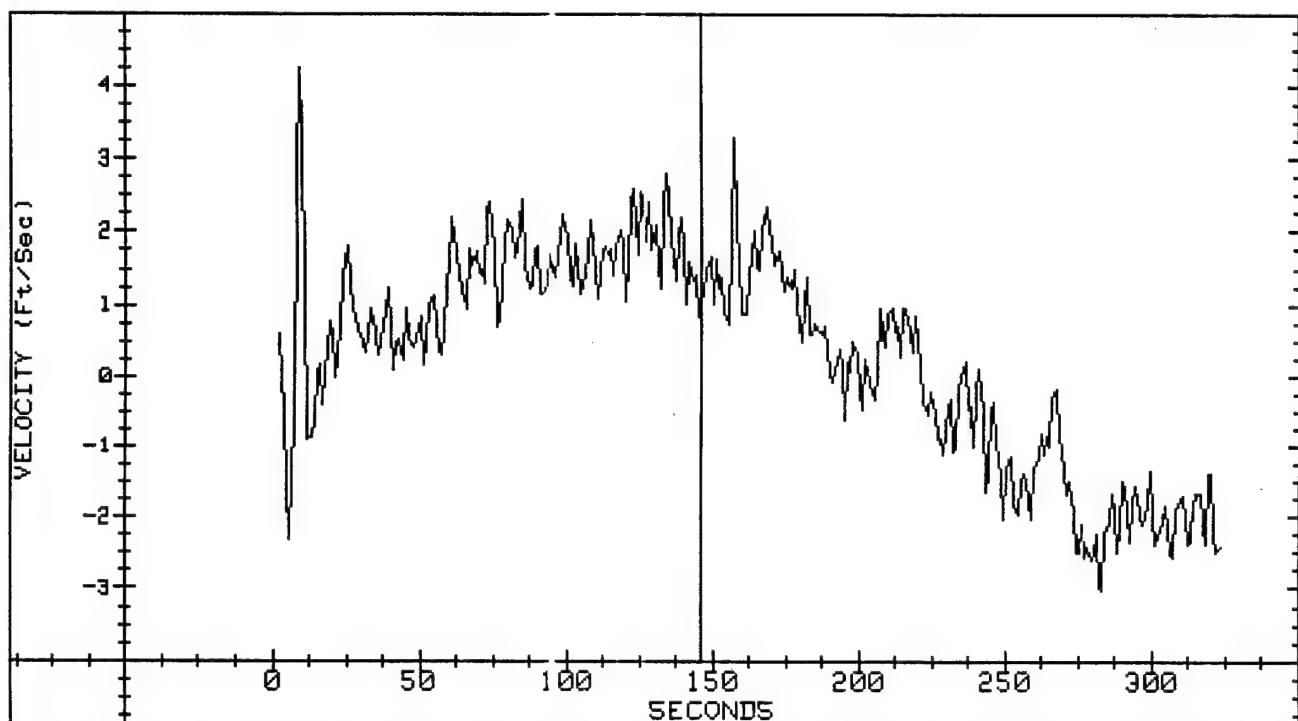
GPS Vn

DAY 179 TIME 1:0 PASS 17 m= -360.3, sd= 1.77852



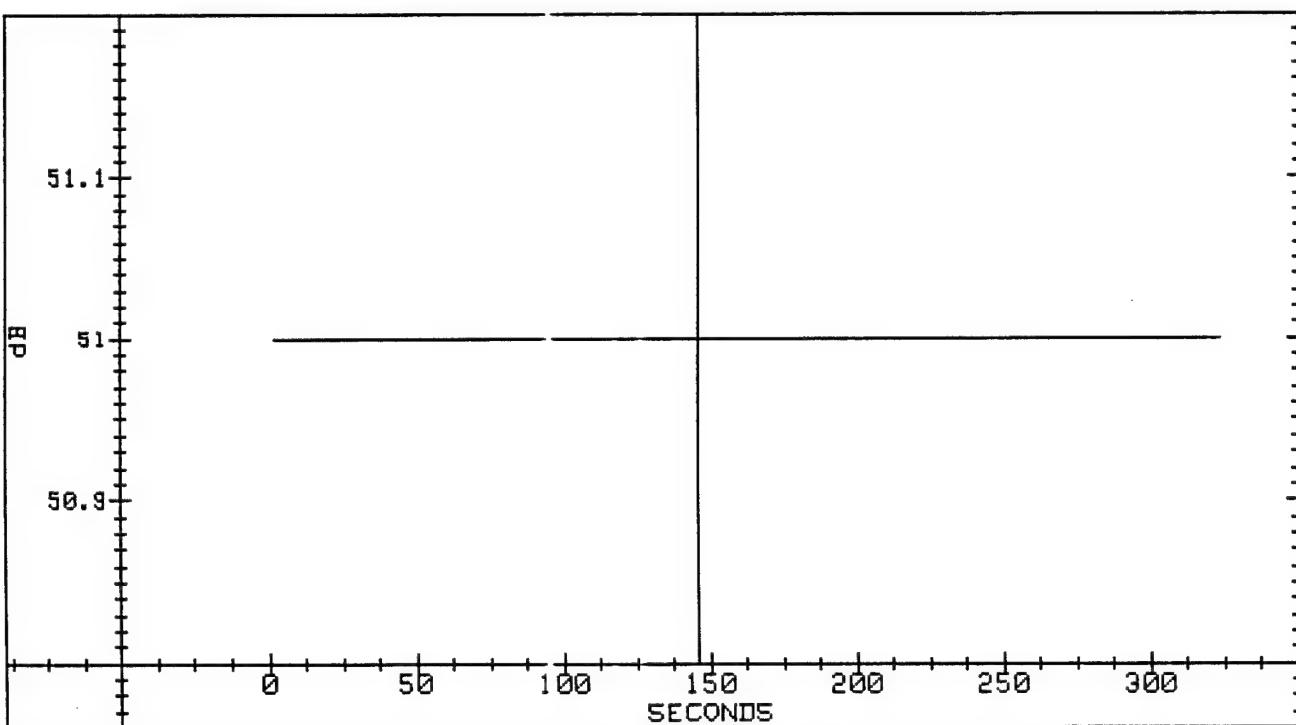
GPS Vv

DAY 179 TIME 1:0 PASS 17 m= -.6772, sd= 1.31944



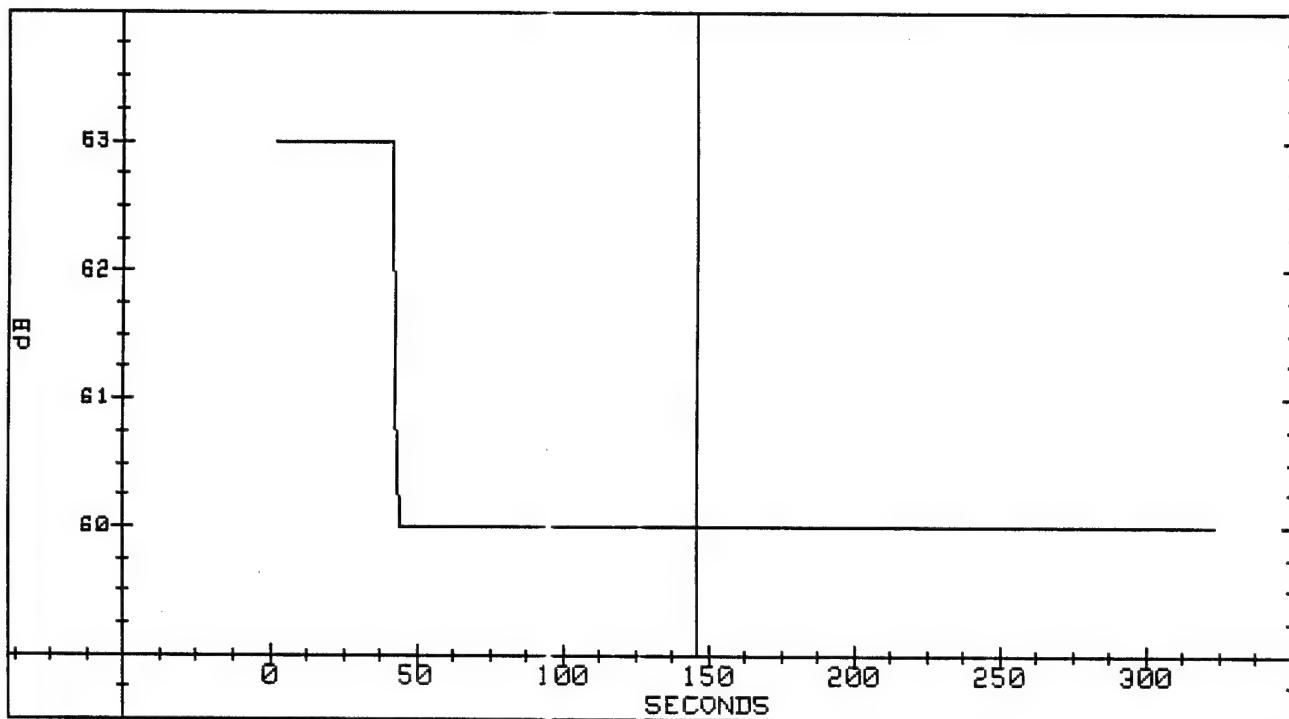
Ch1 RES Attenuation

DAY 179 TIME 1:0 PASS 17 m= 51, sd= 0



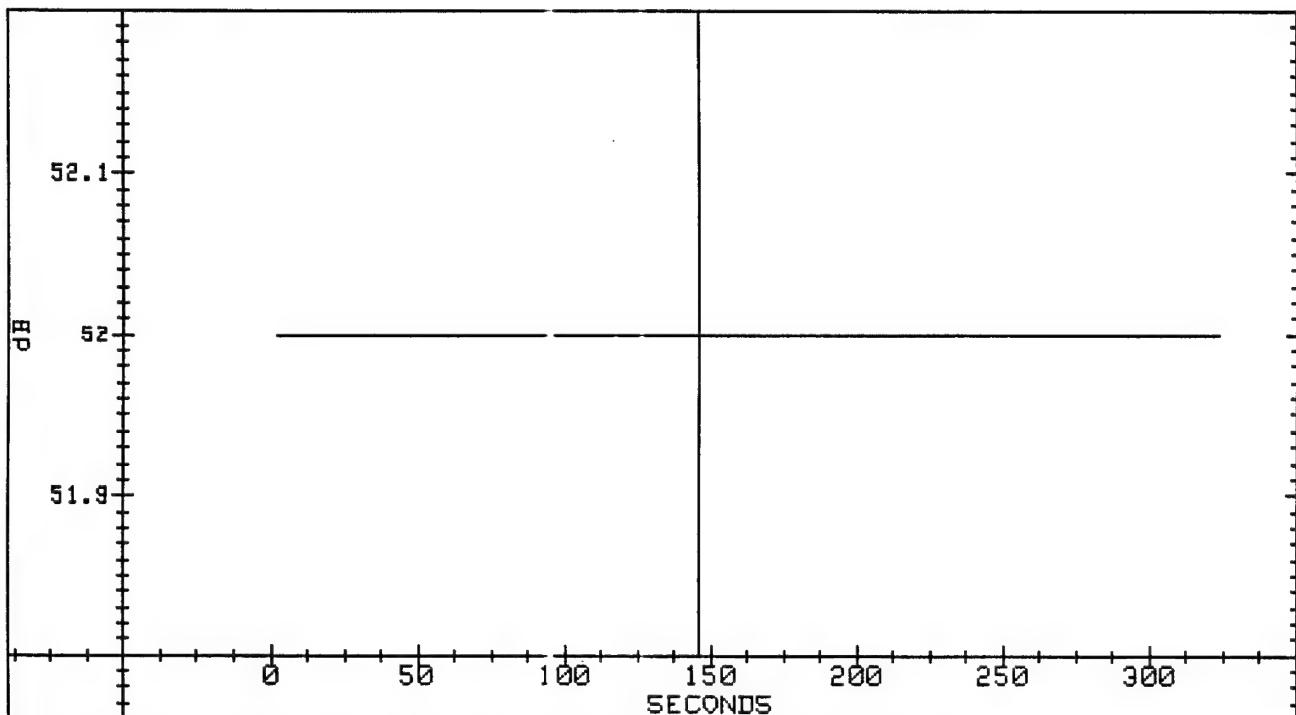
Ch2 RES Attenuation

DAY 179 TIME 1:0 PASS 17 m= 60, sd= 0



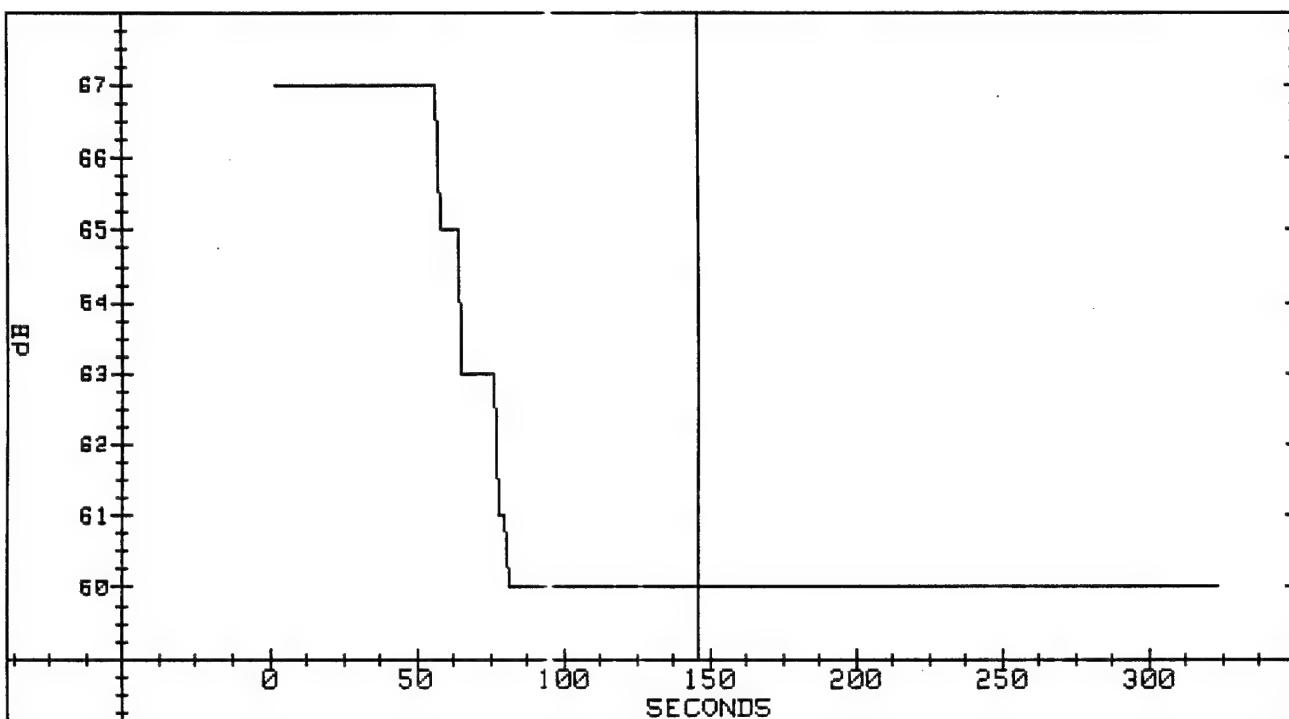
Ch3 RES Attenuation

DAY 179 TIME 1:0 PASS 17 m= 52, sd= 0



Ch4 RES Attenuation

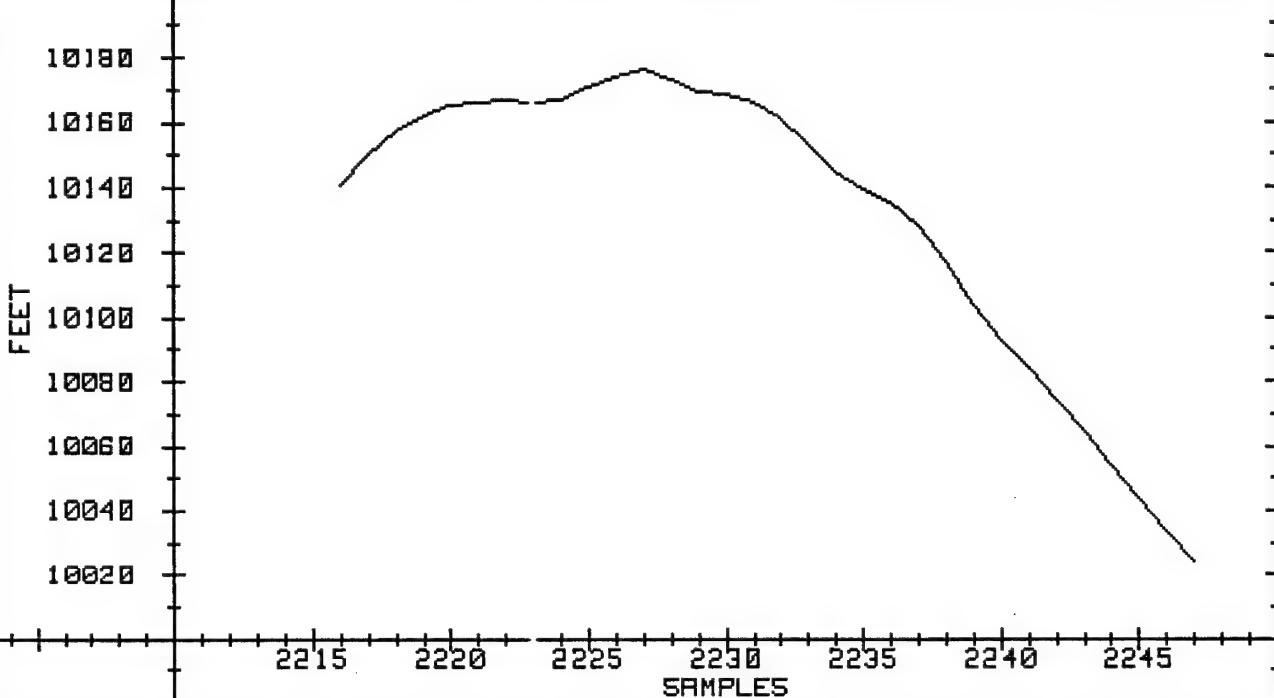
DAY 179 TIME 1:0 PASS 17 m= 60, sd= 0



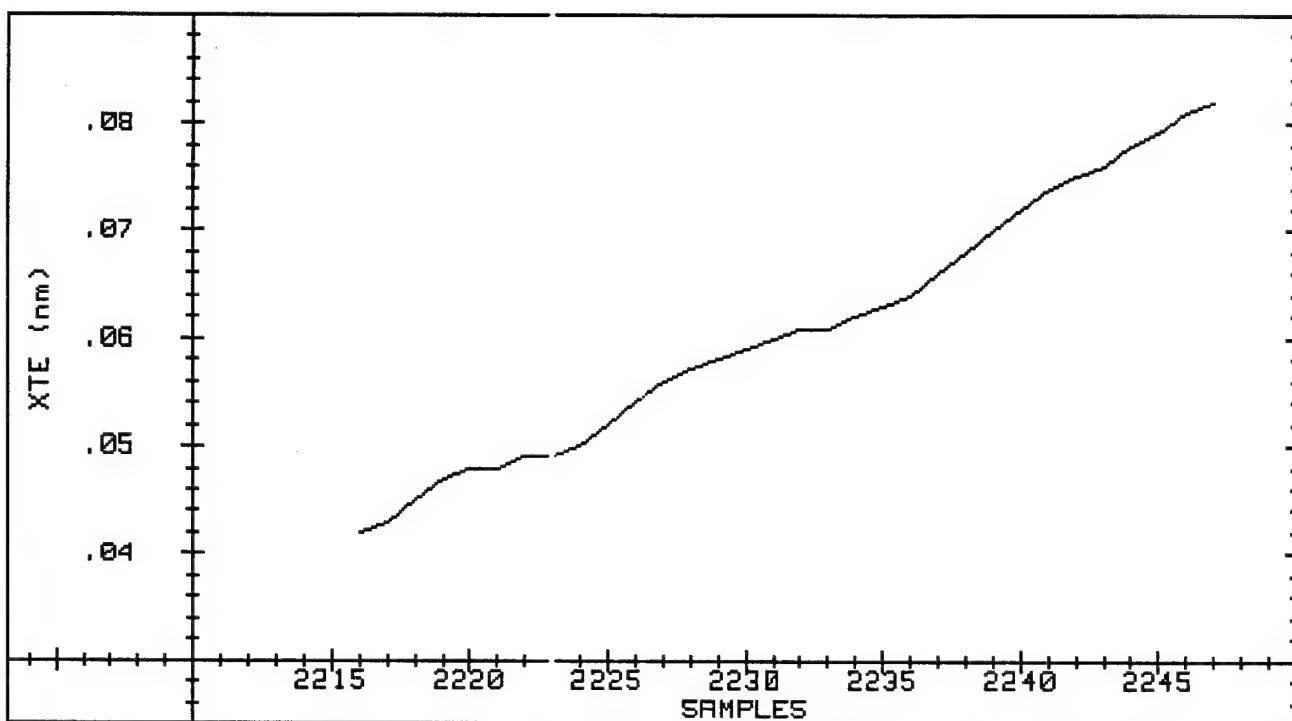
GPS ALTITUDE

MEAN= 10131 STANDARD DEVIATION= 46.0682
DATE: June 27, 1995 PASS 17

OFF
ON
IRR

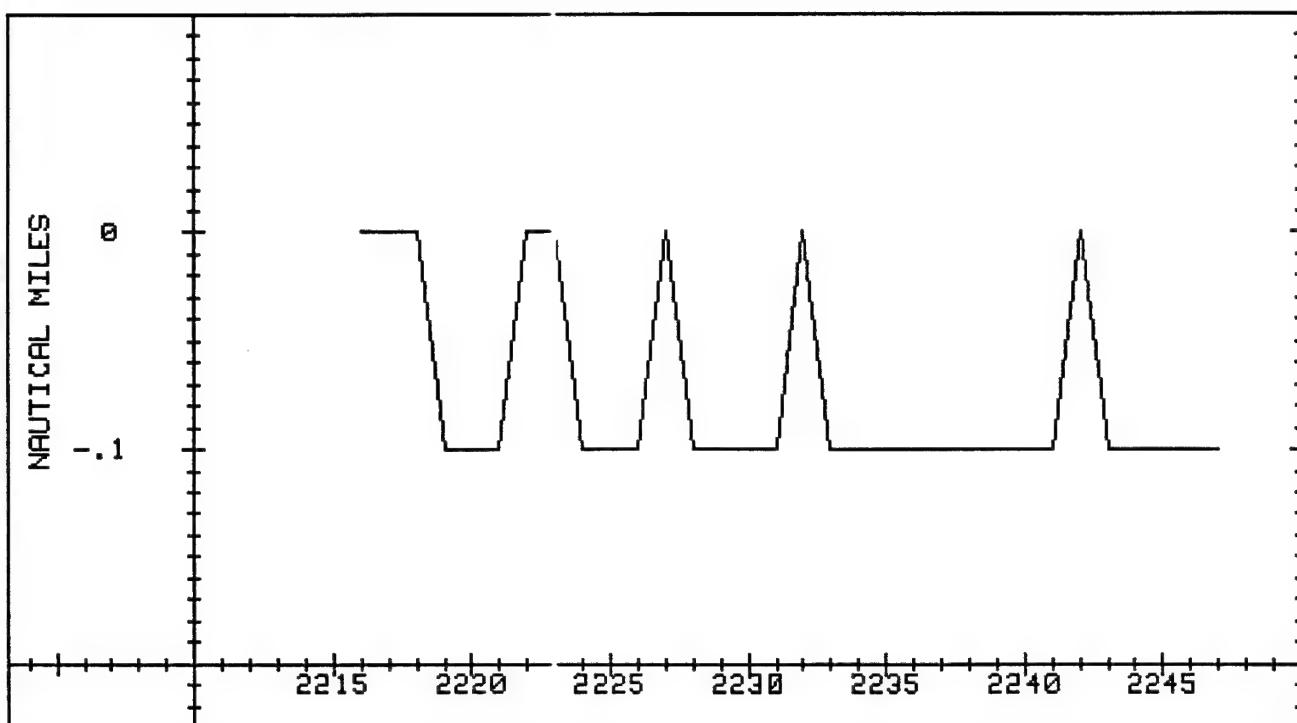


GPS Cross Track Error
MEAN= .0509063 STANDARD DEVIATION= .0117257
DATE: June 27, 1995 PASS 17

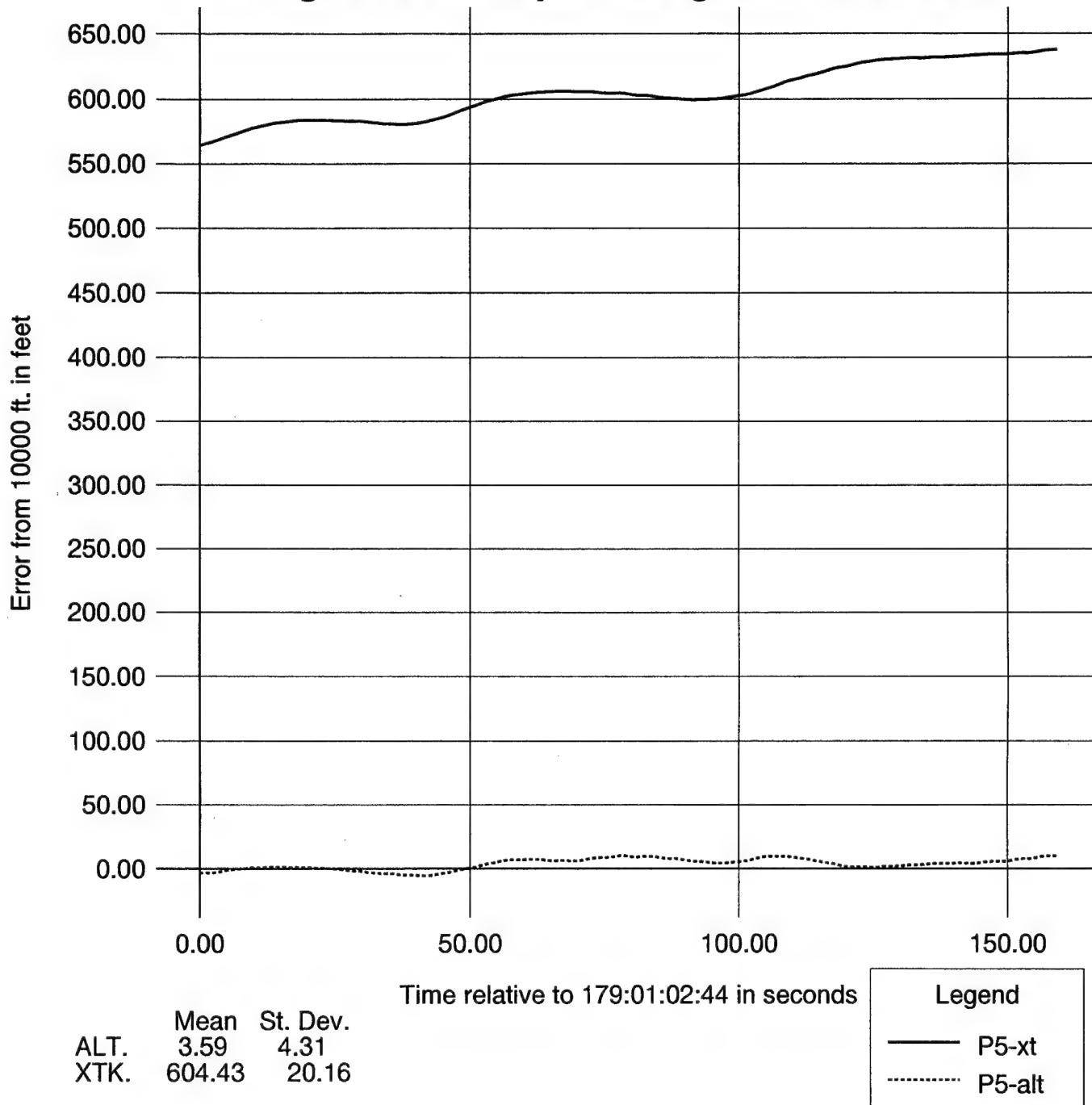


INS CROSS TRACK ERROR

MEAN= -.075 STANDARD DEVIATION= .0433013
DATE: June 27, 1995 PASS 17



Portage, ME - June 27, 1995 - Pass 17 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero



28 Jun 1995
Tape: E1440

Post-line Data Sheet
Line 25
Mission: Presque Isle DAY 3

Time: 179:01:13:19
Pass 18
Req.# 13

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9902 ft s.d. =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	30.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	52.0	67.0	52.0	66.0
End Sq:	90.0°	RMS Video (%FS)	22.2	12.8	18.7	13.7

WAYPOINTS

Latitude	Longitude	
Line_up:	N 46:30.71	W 68:44.60
Start:	N 46:41.11	W 68:35.93
End:	N 46:49.77	W 68:28.66
From:	N 31:49.89	W 78:14.04
To:	N 60:12.77	W 51:51.23
		Main Target: IE
		Mocomp Point:
		Lat: N 46:44.12
		Long: W 68:28.98
		Tgt Trk: 0.0 Tgt Vel: 0.0
		Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 248.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> 4.7 fps (s.d.= 3.6)
Ave Fil Vel -> 8.6 fps (s.d.= 3.4)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 7808 ft	(2)
C: -70.0	Pitch: 0.0°	Ending: 9083 ft	(2)
P: 40.2			

Vel Bias	CAI Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:13:19
End: 01:16:01

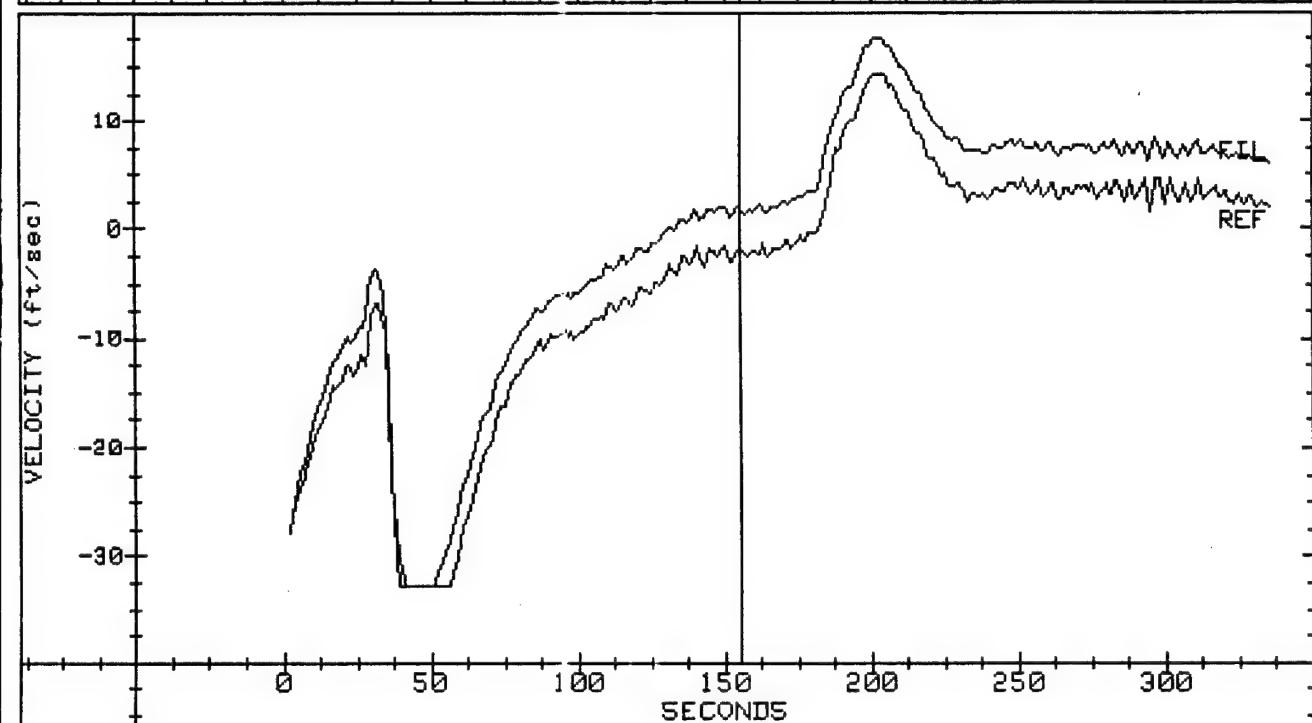
Mocomp Counters

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

Start: 1066285 0010452Dh
End: 1093454 0010AF4Eh

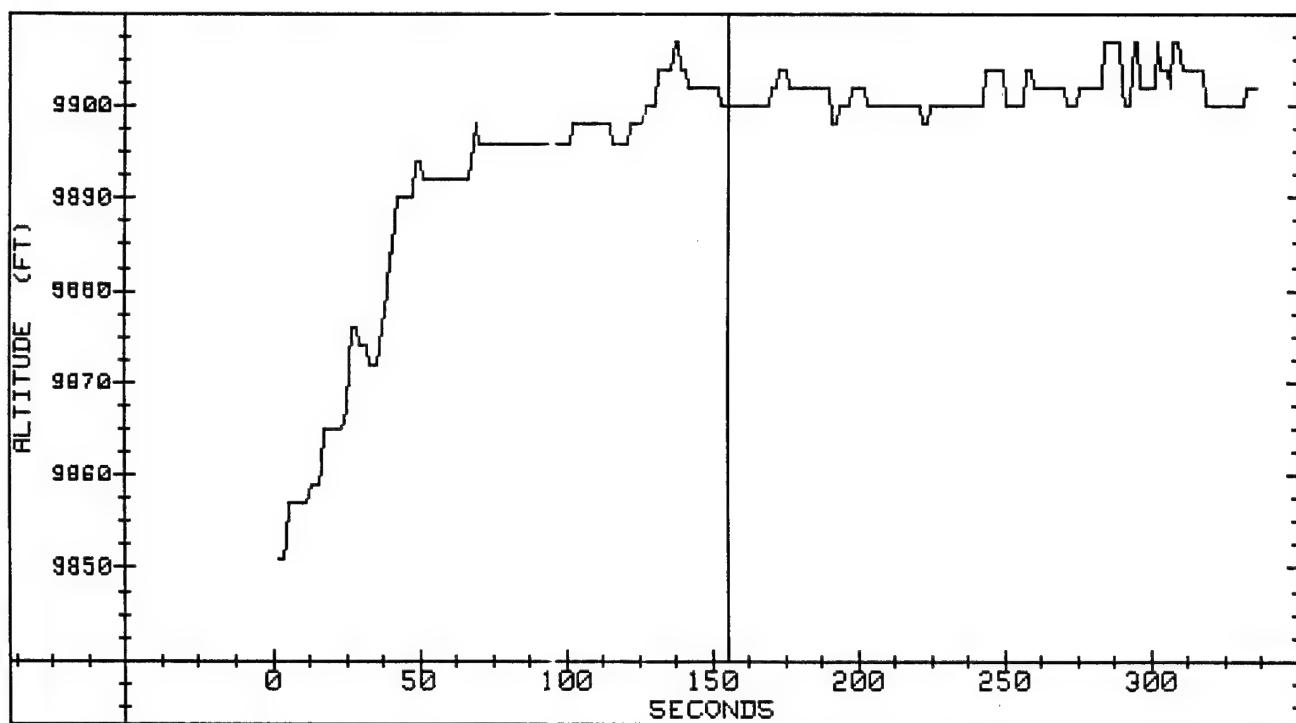
FILTERED vs. REF. VELOCITY
DAY 179 TIME 1:10 PASS 10

ING
LORAN
GPS



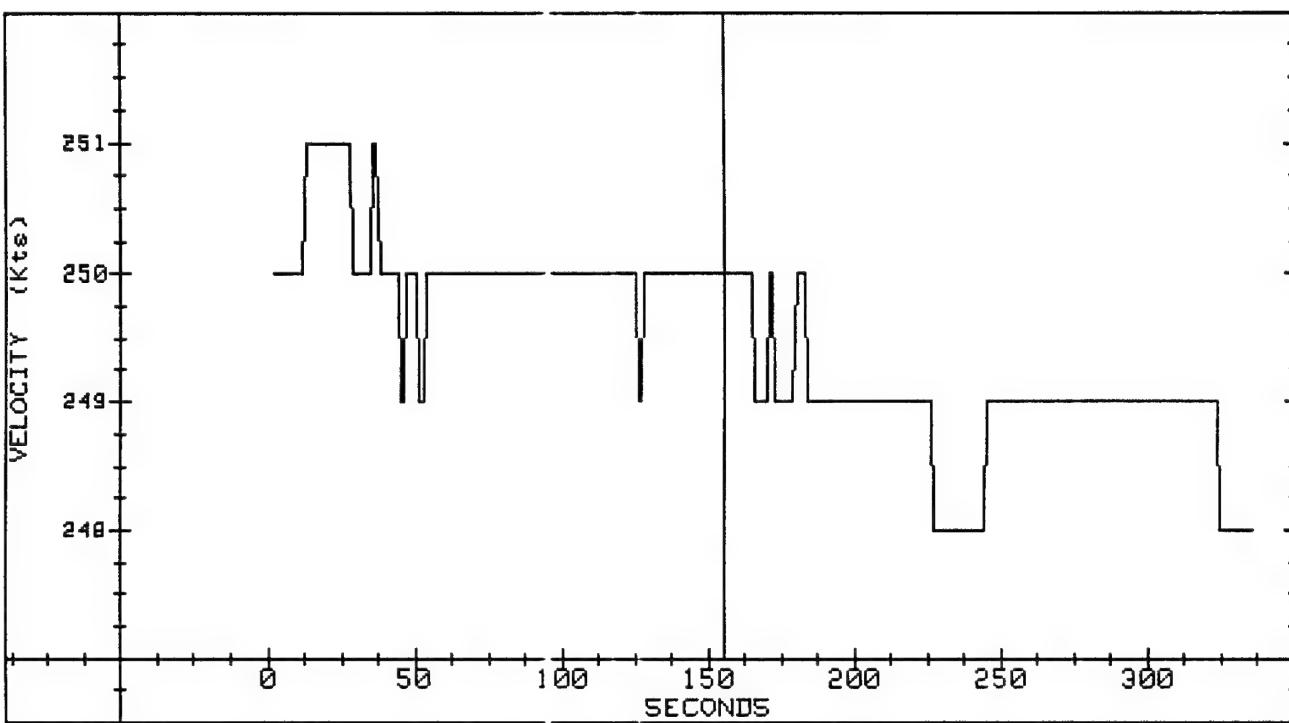
BARO ALTITUDE

DAY 179 TIME 1:10 PASS 10 m- 9902, sd- 2.11773



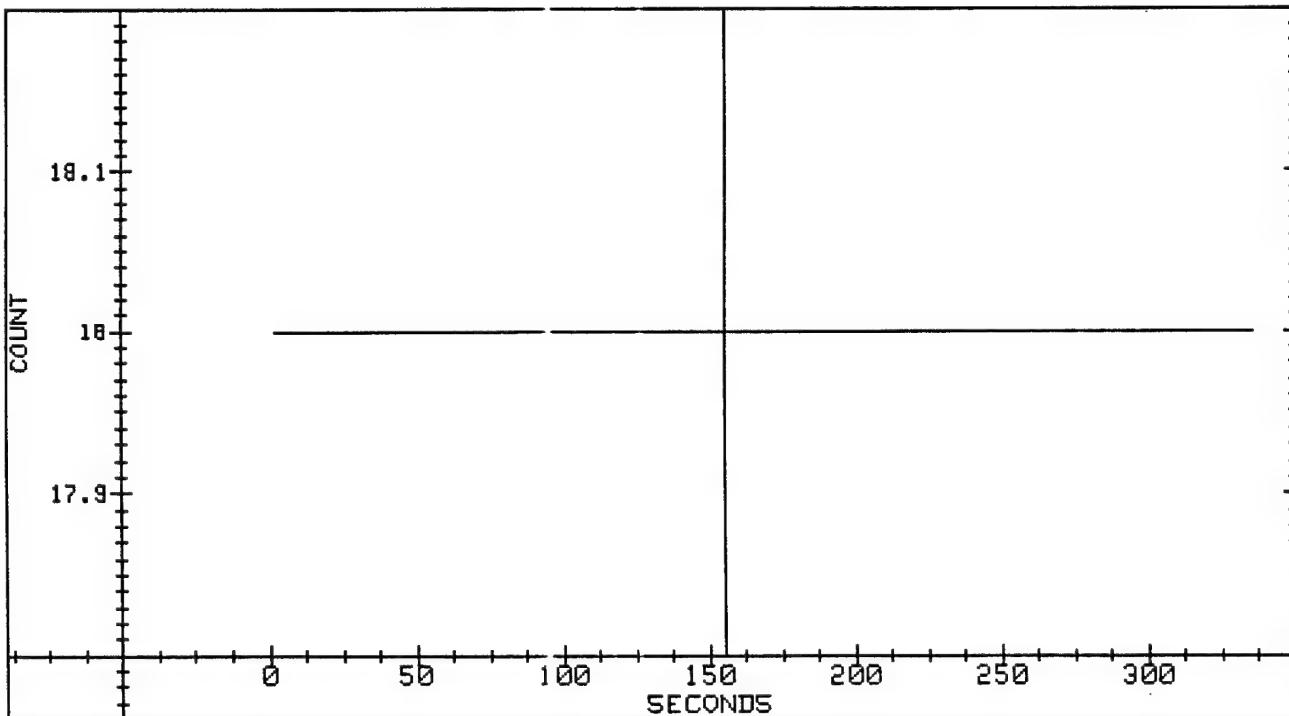
INS GROUND SPEED

DAY 179 TIME 1:10 PRSS 18 m- 240.8, sd- .427955



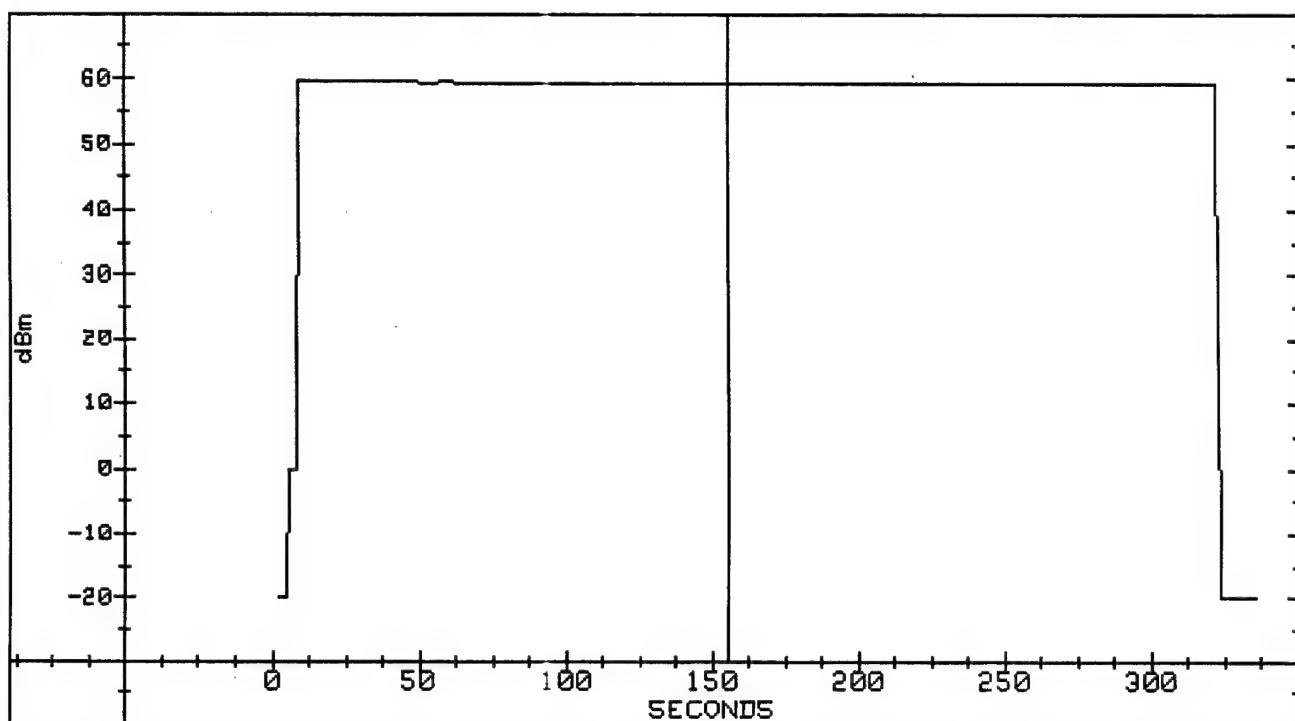
PASS NUMBER

DAY 179 TIME 1:10 PASS 18 m= 18, sd= 0

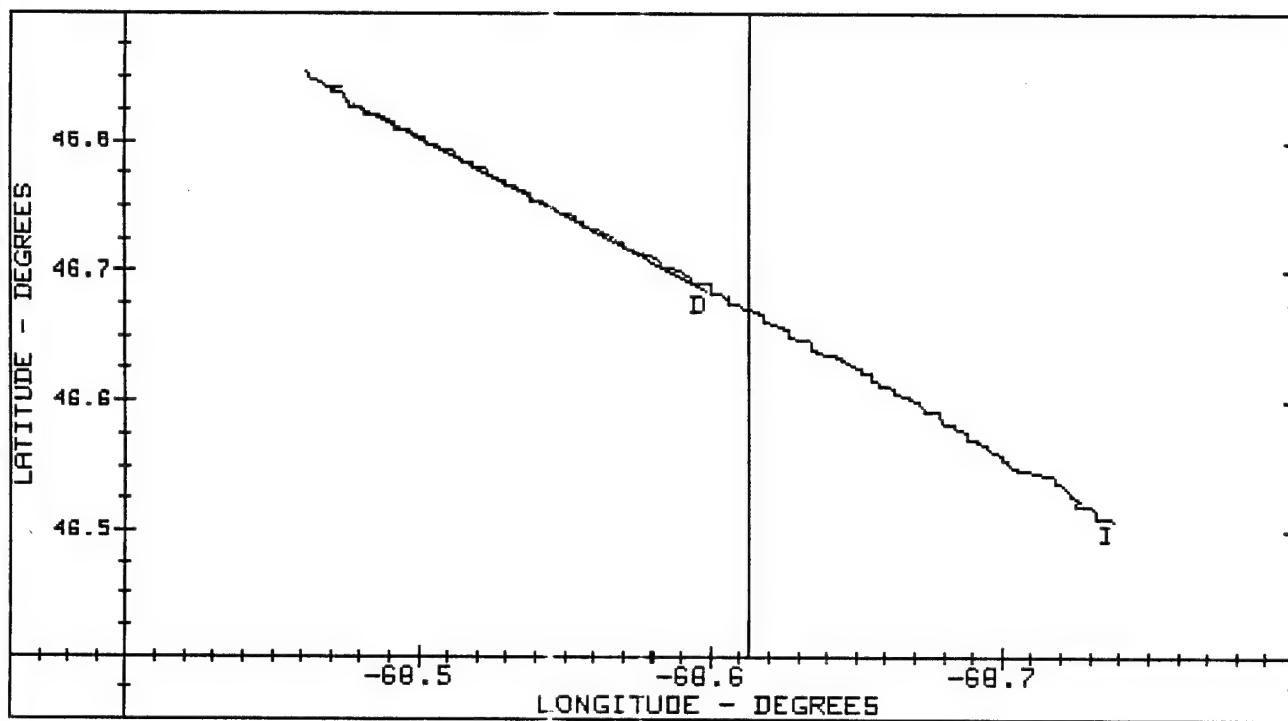


P Band Power

DAY 179 TIME 1:10 PASS 18 m= 52.96, sd= 21.4777

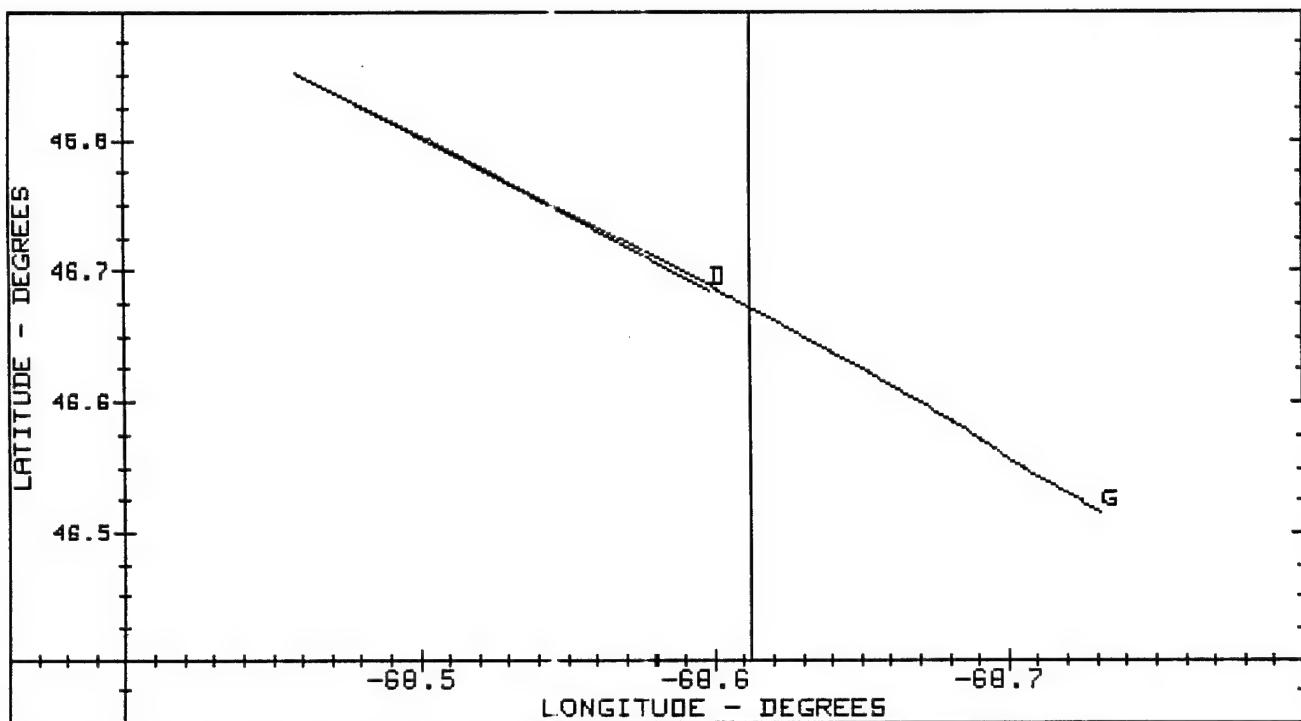


INS AIRCRAFT POSITION
DAY 179 TIME 1:10 PASS 18



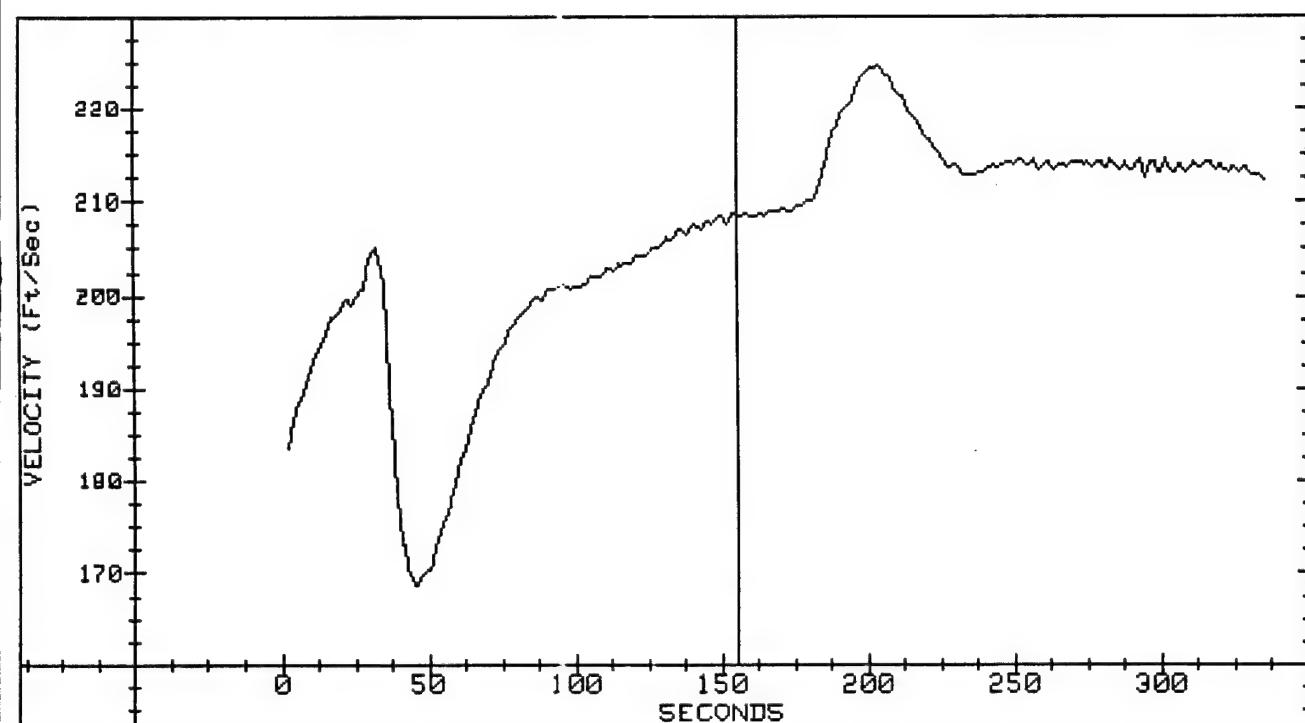
GPS AIRCRAFT POSITION

DAY 179 TIME 1:10 PASS 10



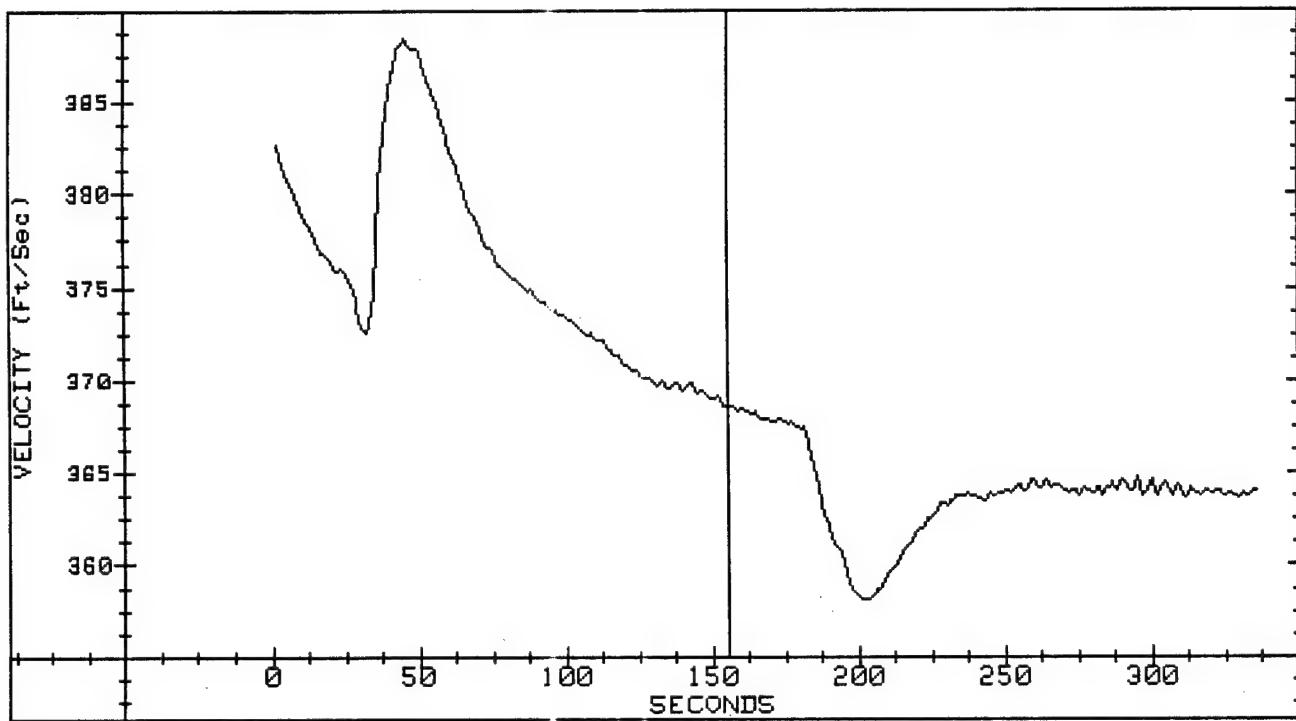
GPS V_B

DAY 179 TIME 1:10 PASS 18 m- 215.1, sd- 3.52793



GPS Vn

DRY 179 TIME 1:10 PASS 18 m- 363.4, sd- 2.07515

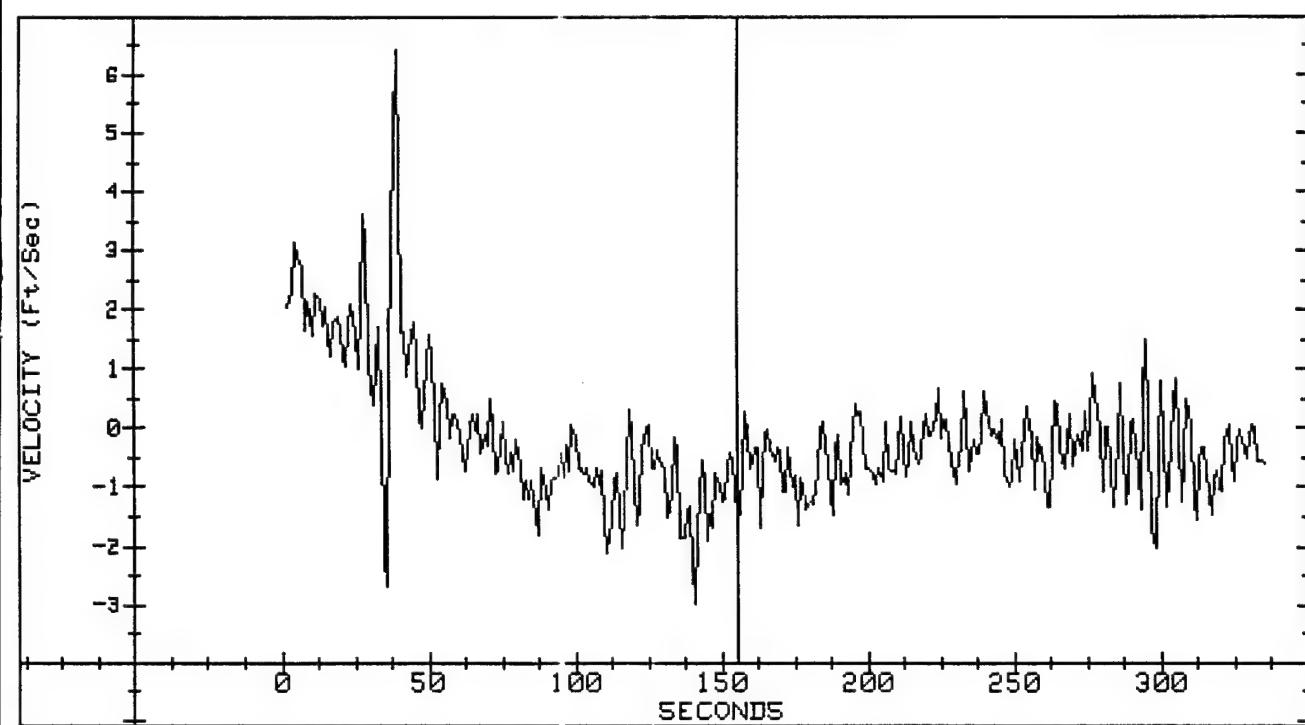


GPS Vv

DRY 179 TIME 1:10

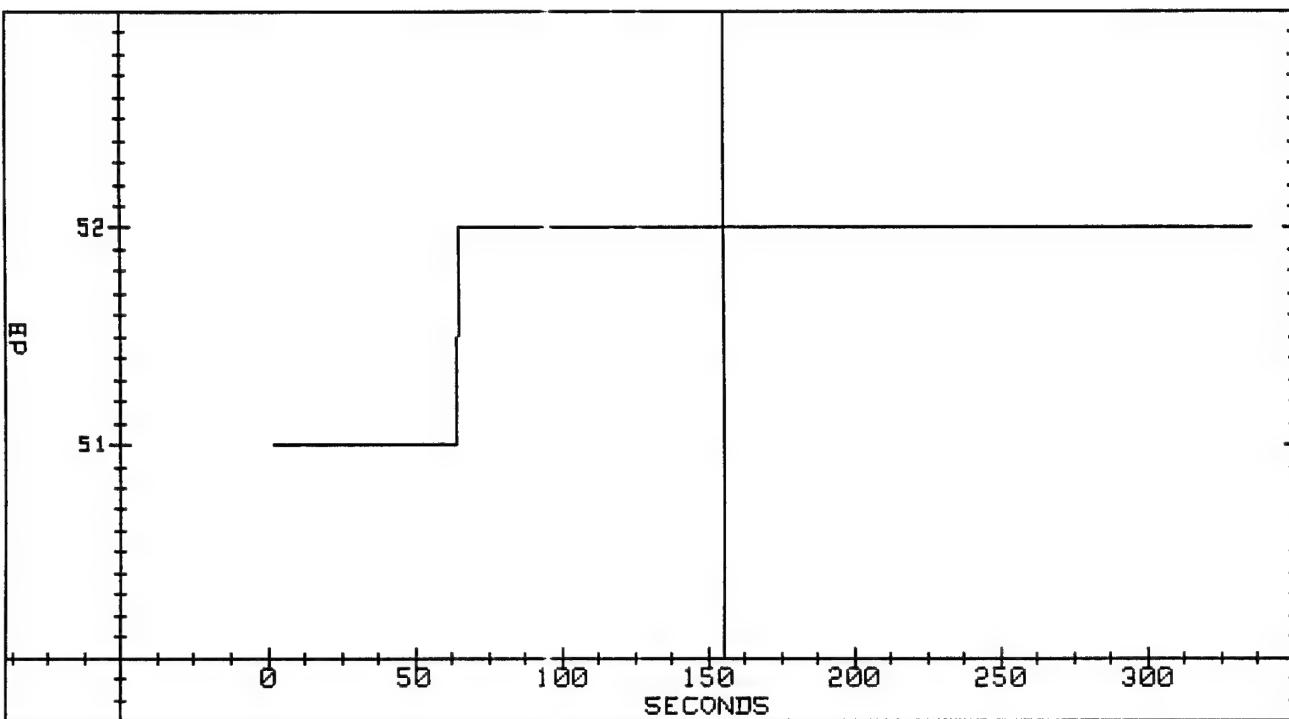
PRSS 18

m- -.399, sd- .508653



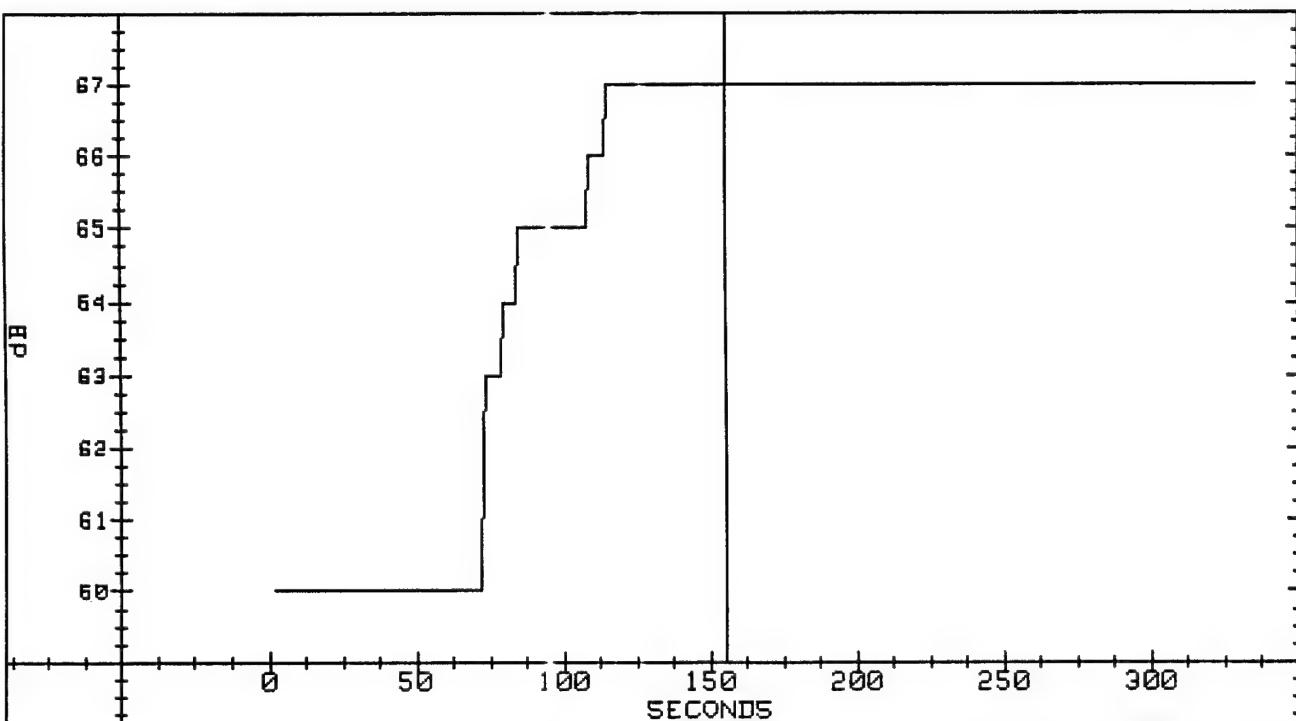
Ch1 RES Attenuation

DAY 179 TIME 1:10 PASS 18 m= 52, sd= 0



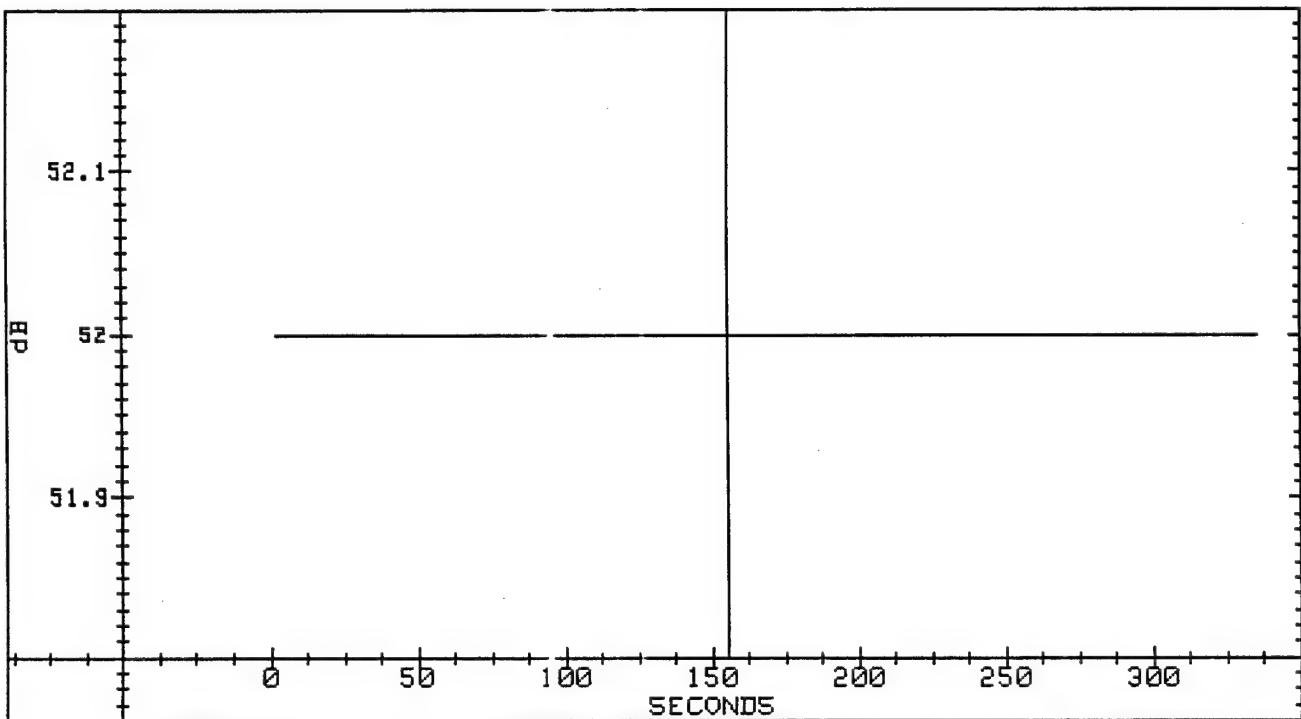
Ch2 RES Attenuation

DAY 179 TIME 1:10 PASS 10 m= 67, sd= 0



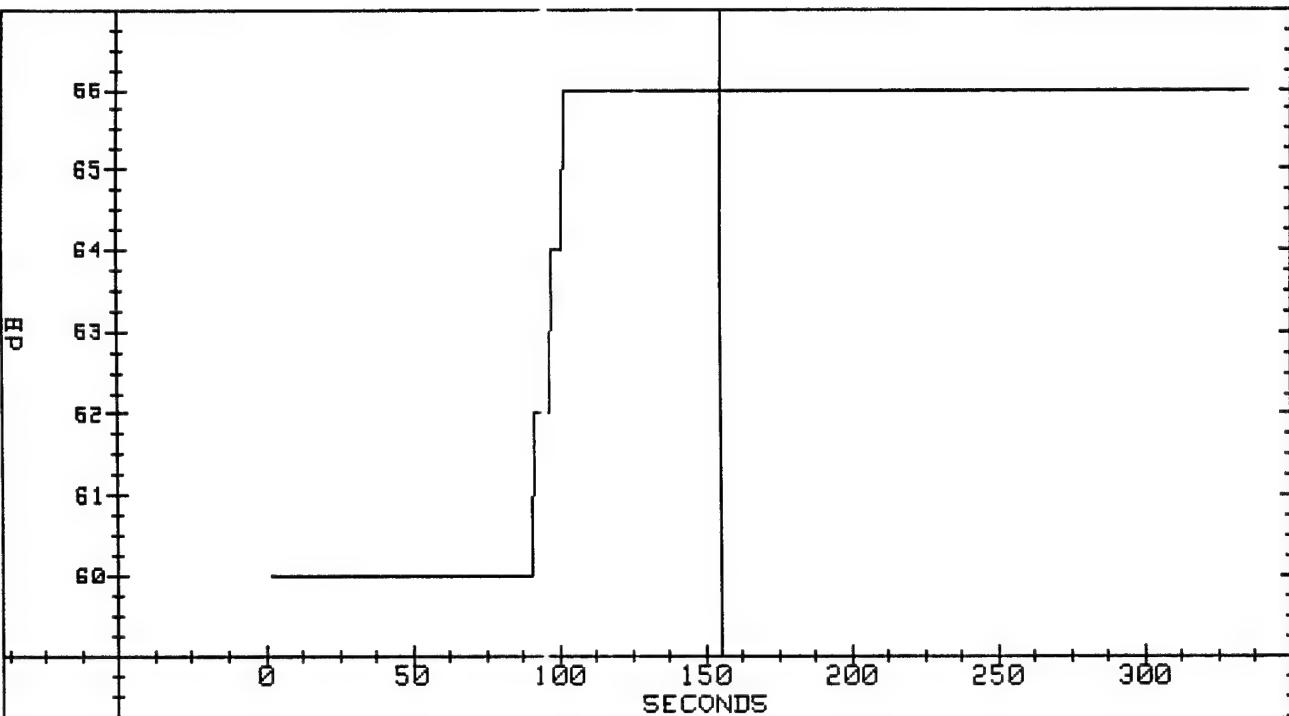
Ch3 RES Attenuation

DAY 179 TIME 1:10 PASS 10 m= 52, sd= 0



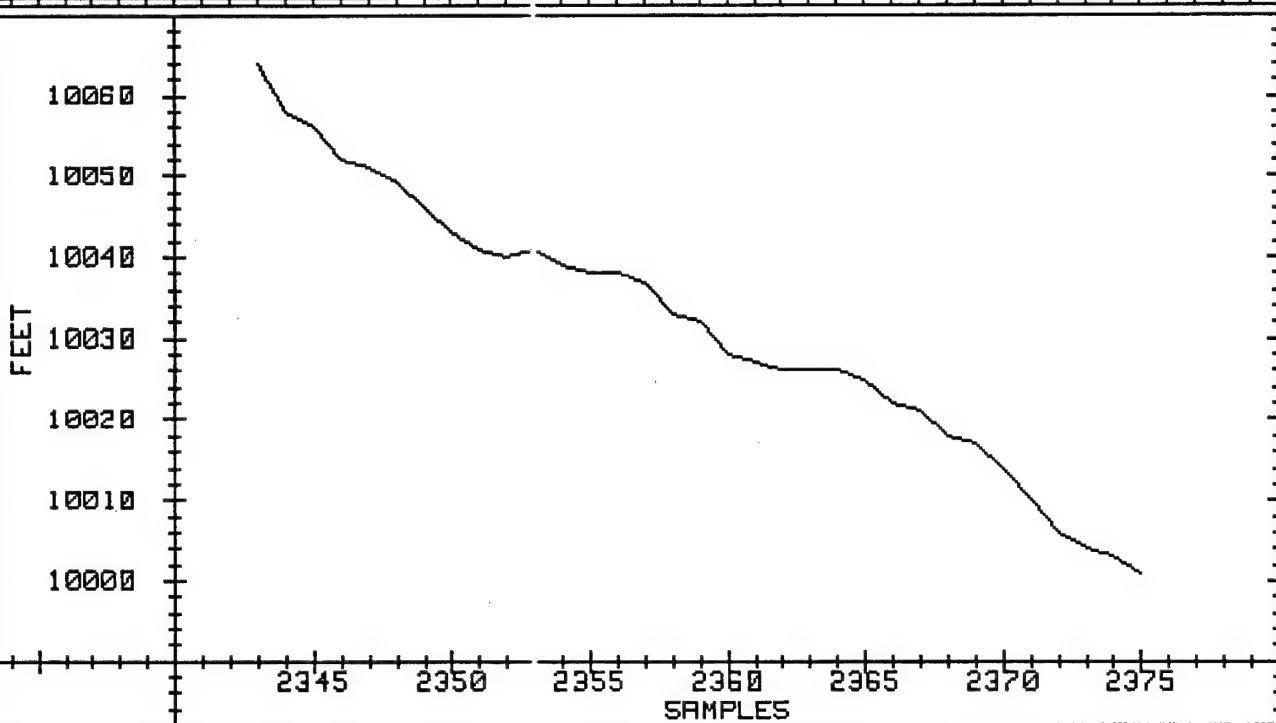
Ch4 RES Attenuation

DAY 179 TIME 1:10 PASS 18 m= 66, sd= 0

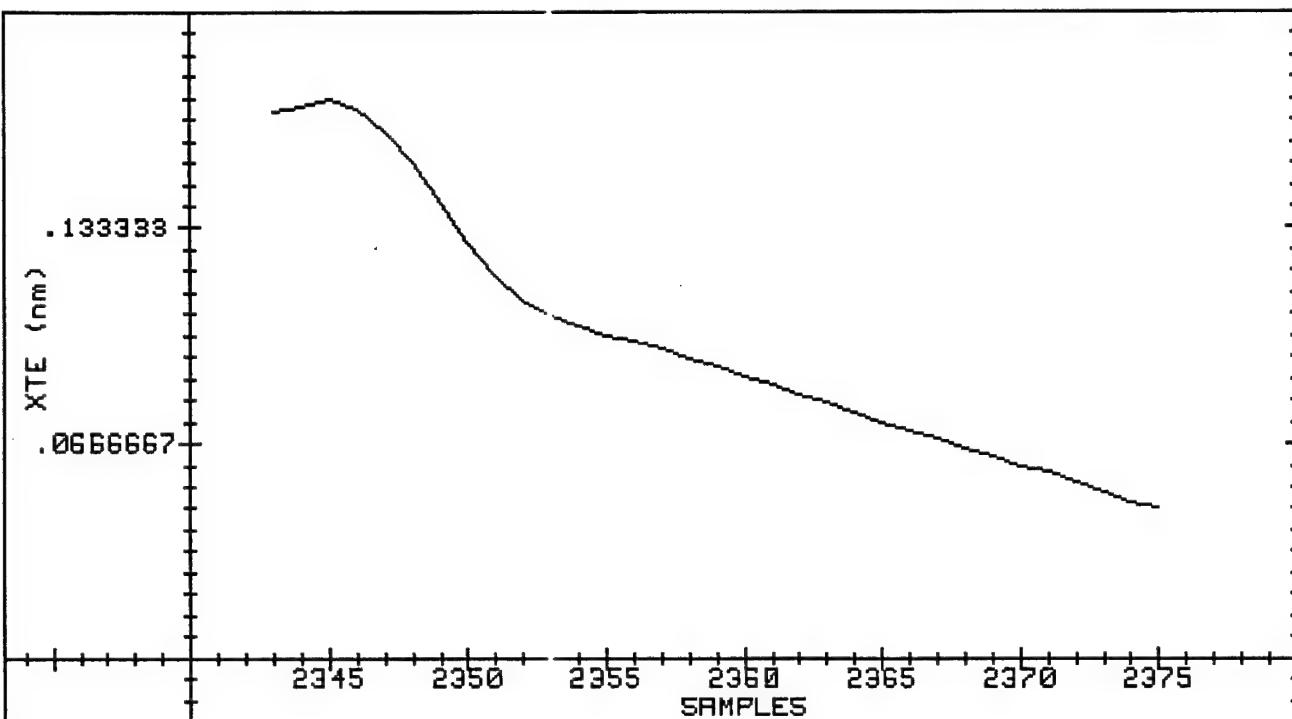


GPS ALTITUDE
MEAN= 10031.3 STANDARD DEVIATION= 16.4303
DATE: June 27, 1995 PASS 18

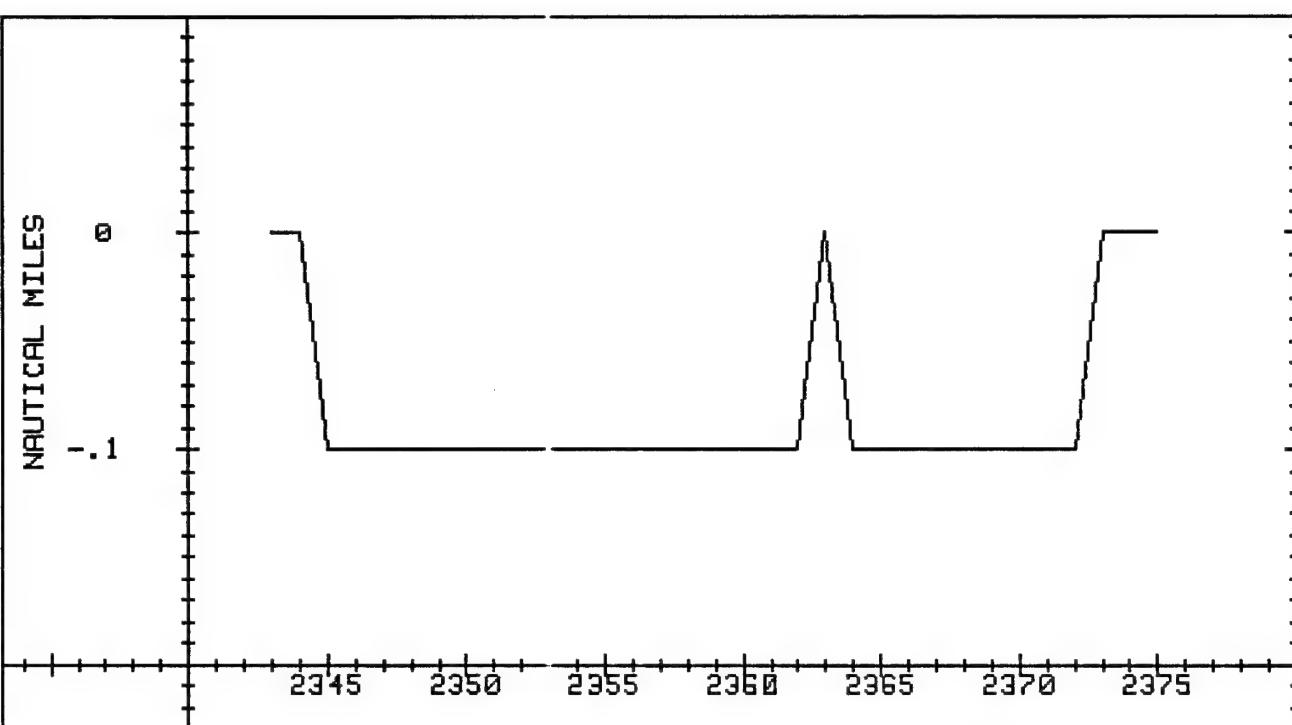
OFF
ON
IRR



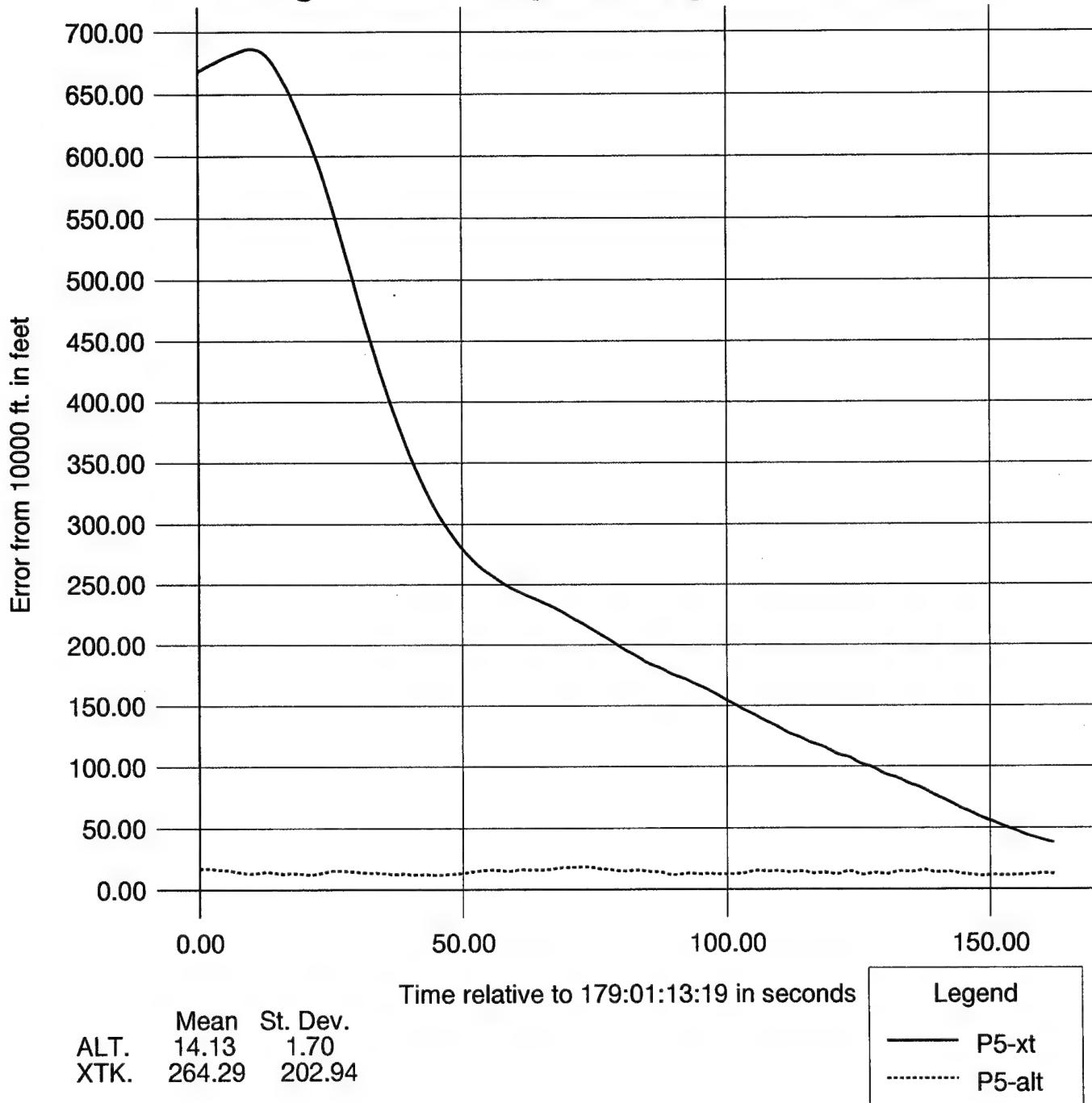
GPS Cross Track Error
MEAN- .0986364 STANDARD DEVIATION- .0388217
DATE: June 27, 1995 PASS 18



INS CROSS TRACK ERROR
MEAN= -.0818182 STANDARD DEVIATION= .0385685
DATE: June 27, 1995 PASS 18



Portage, ME - June 27, 1995 - Pass 18 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero



28 Jun 1995
Tape: E1440

Post-line Data Sheet
Line 29
Mission: Presque Isle DAY 3

Time: 179:01:26:37
Pass 19
Req. # 15

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9886 ft s.d. =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slr. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.7°	35.7°	35.7°	35.7°
Des. trk:	120.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	52.0	59.0	51.0	60.0
End Sq:	90.0°	RMS Video (%FS)	25.6	25.7	20.4	26.1

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:54.86	W 68:48.54	Main Target: IE
Start:	N 46:48.89	W 68:33.37	Mocomp Point:
End:	N 46:43.89	W 68:20.78	Lat: N 46:44.12
From:	N 52:47.33	W 92:35.12	Long: W 68:28.98
To:	N 36:51.34	W 50:24.96	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL.U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 248.4 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.5 fps (s.d.= .9)
Ave Fil Vel -> 2.5 fps (s.d.= .9)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 9097 ft	(2)
L: -70.0	Azimuth: 0.0°	Ending: 10356 ft	(2)
C: -70.0	Pitch: 0.0°		
P: 40.2			

Vel Bias	CAL Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:26:37
End: 01:29:21

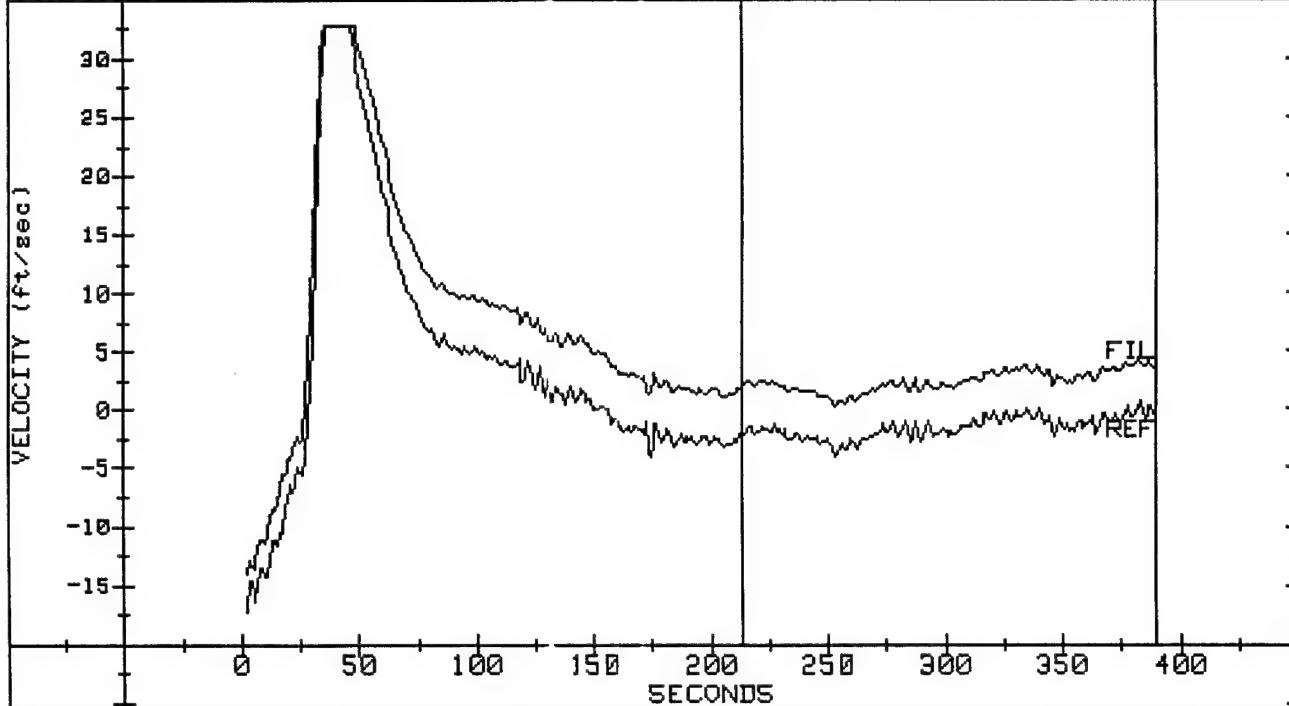
Mocomp Counters

Start: 1131299 00114323h
End: 1158804 0011A894h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

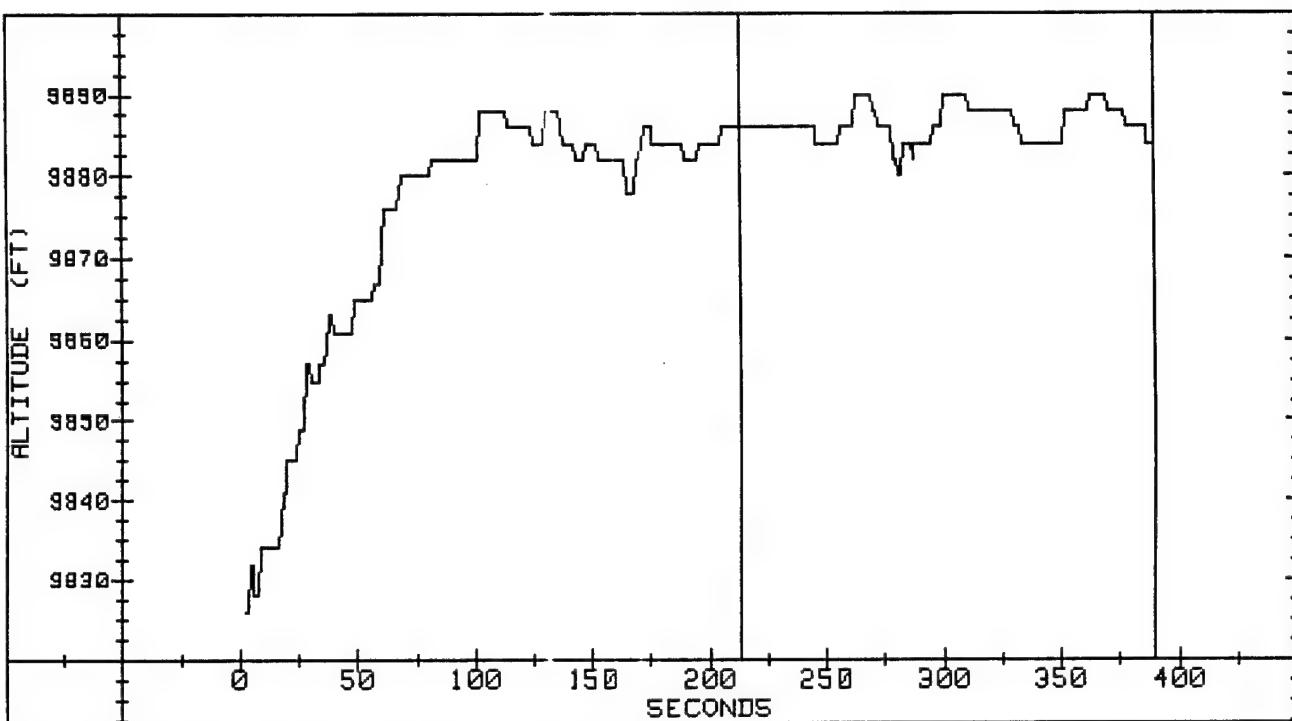
FILTERED vs. REF. VELOCITY
DAY 179 TIME 1:22 PASS 19

ING
LDRW
CPS



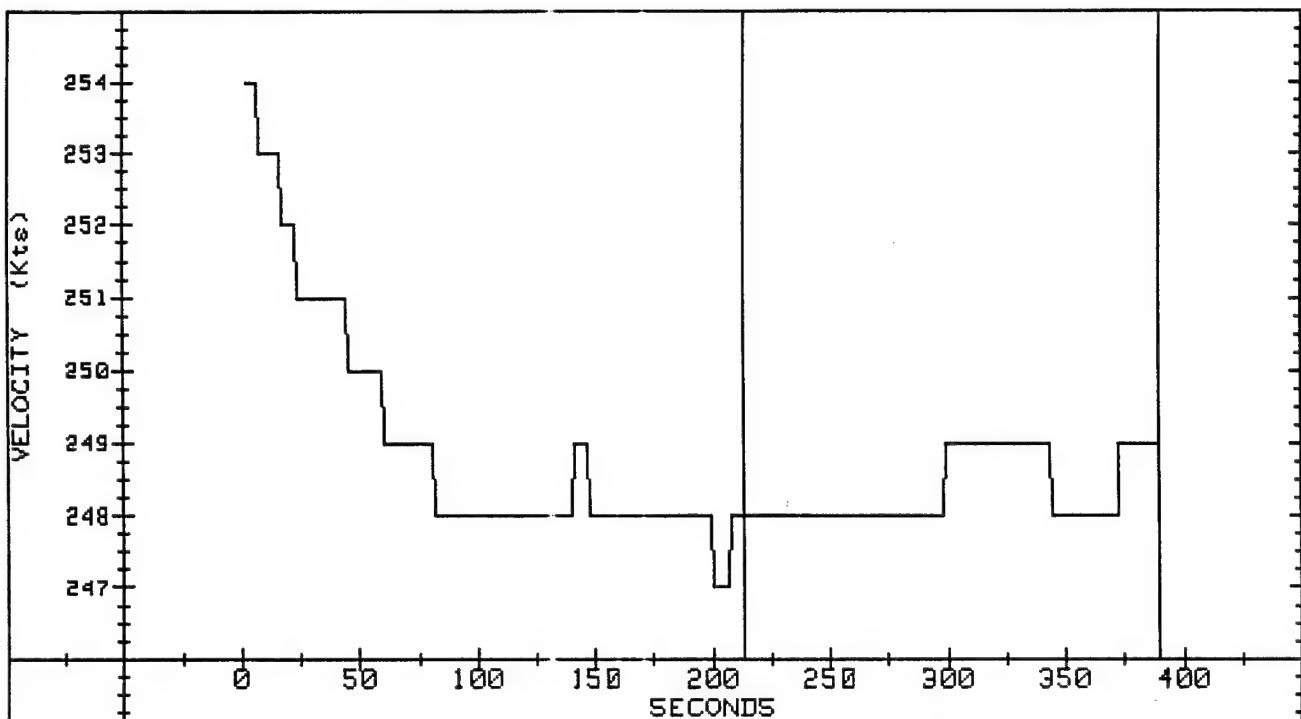
BARO ALTITUDE

DAY 179 TIME 1:22 PASS 19 m= 9086, sd= 2.2401



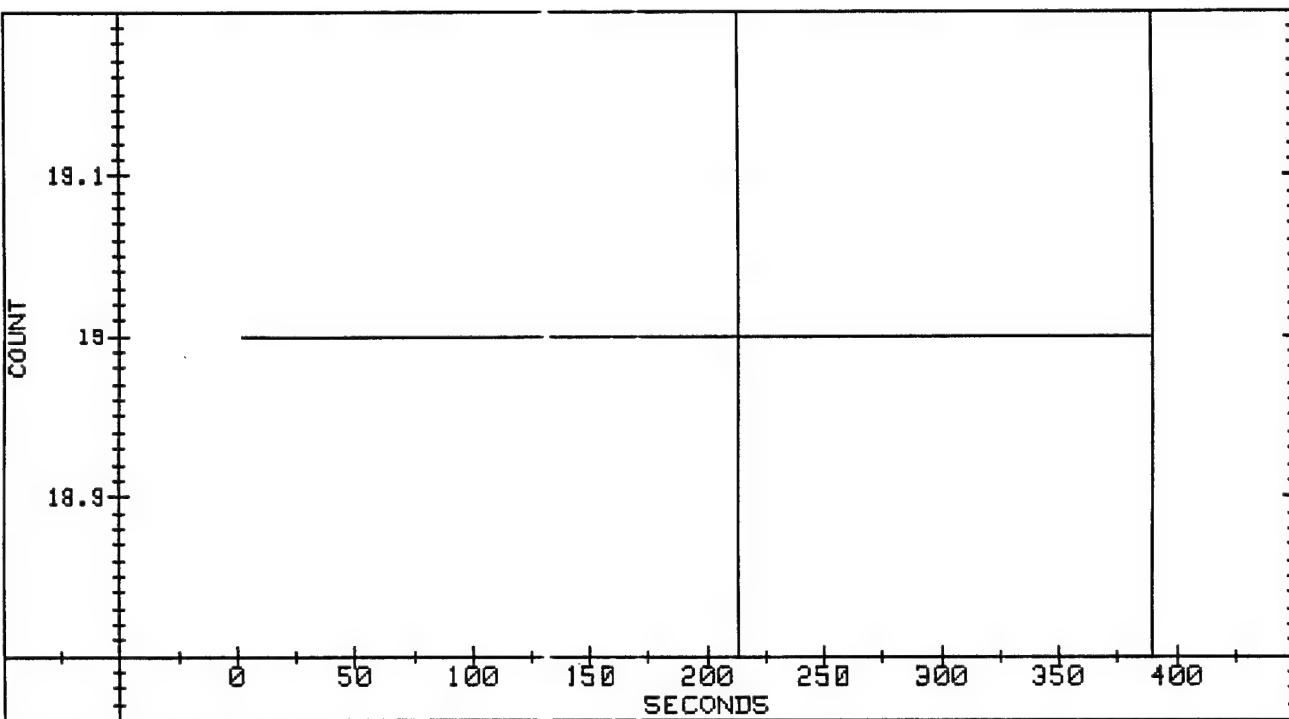
INS GROUND SPEED

DAY 179 TIME 1:22 PASS 19 m- 248.4, sd- .405832



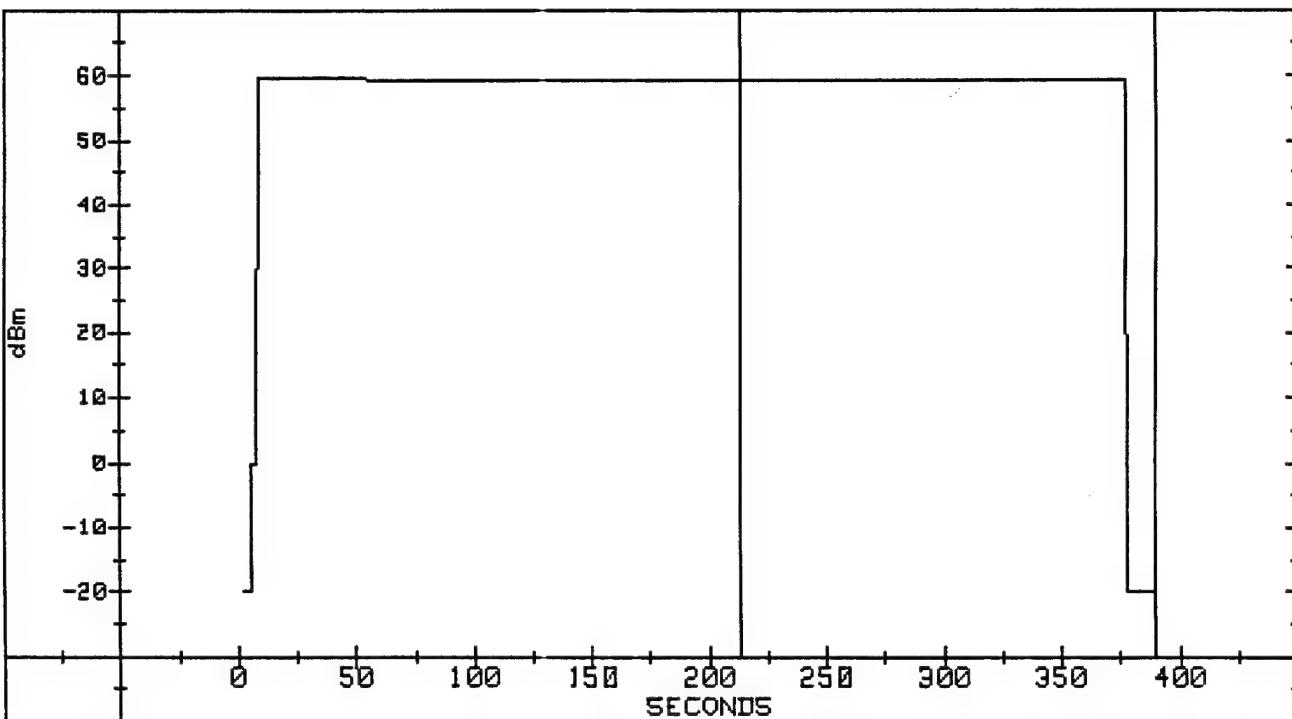
PASS NUMBER

DAY 179 TIME 1:22 PASS 19 m- 19, sd- 0



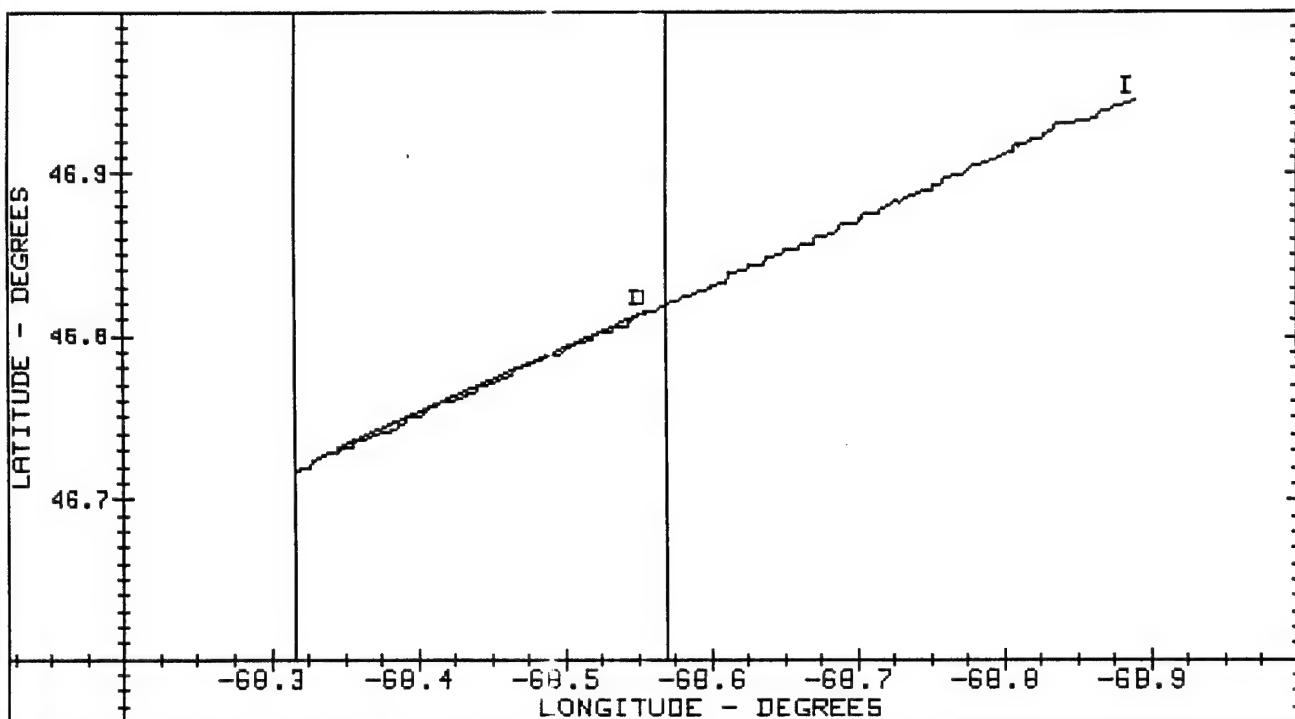
P Band Power

DAY 179 TIME 1:22 PASS 19 m= 53.03, sd= 21.358



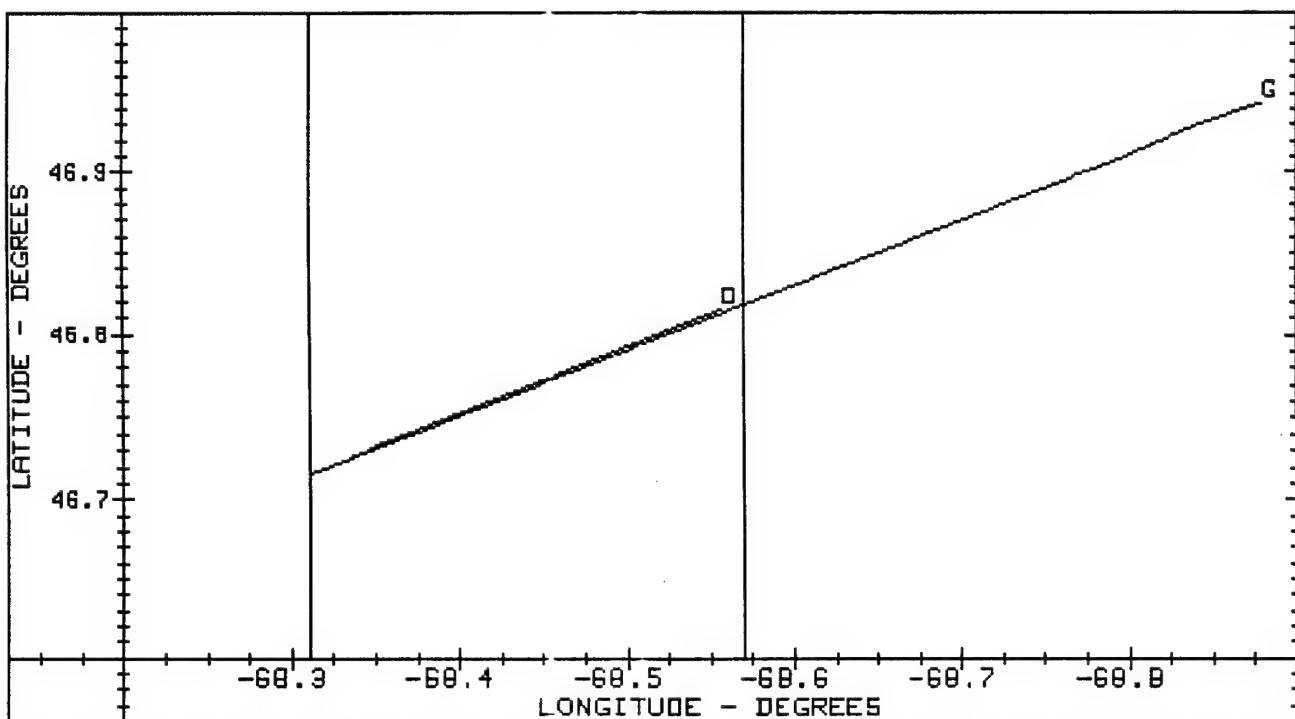
INS AIRCRAFT POSITION

DAY 179 TIME 1:22 PASS 19



GPS AIRCRAFT POSITION

DAY 179 TIME 1:22 PASS 19



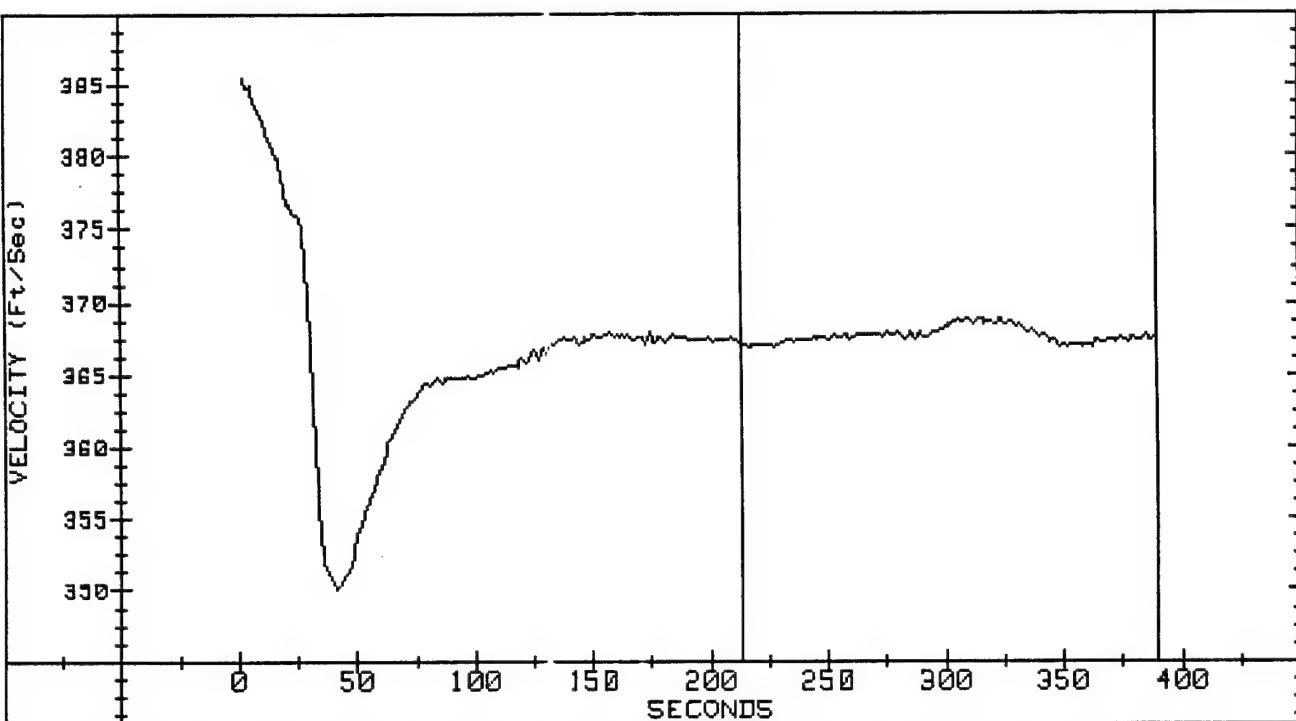
GPS Ve

DAY 179

TIME 1:22

PRSS 19

m- 367.8, sd- .518382



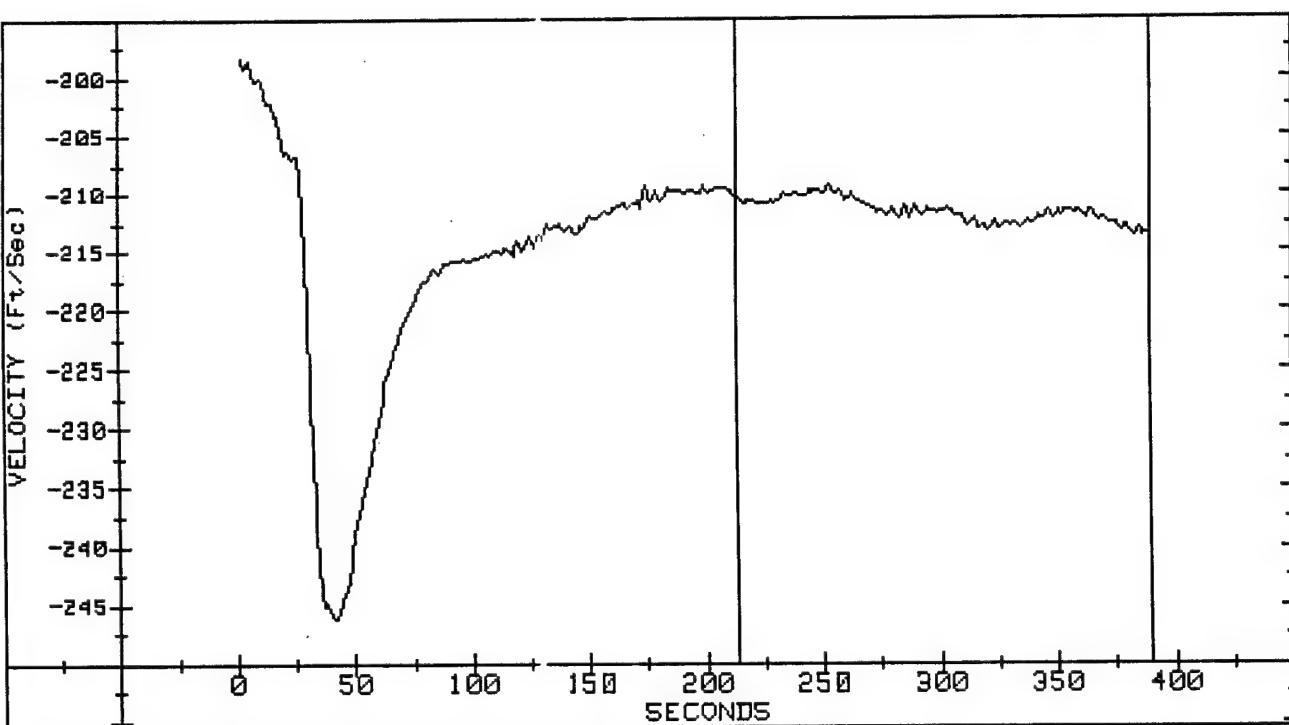
GPS Vn

DAY 179

TIME 1:22

PRSS 19

$m = -211.7$, $sd = 1.0502$

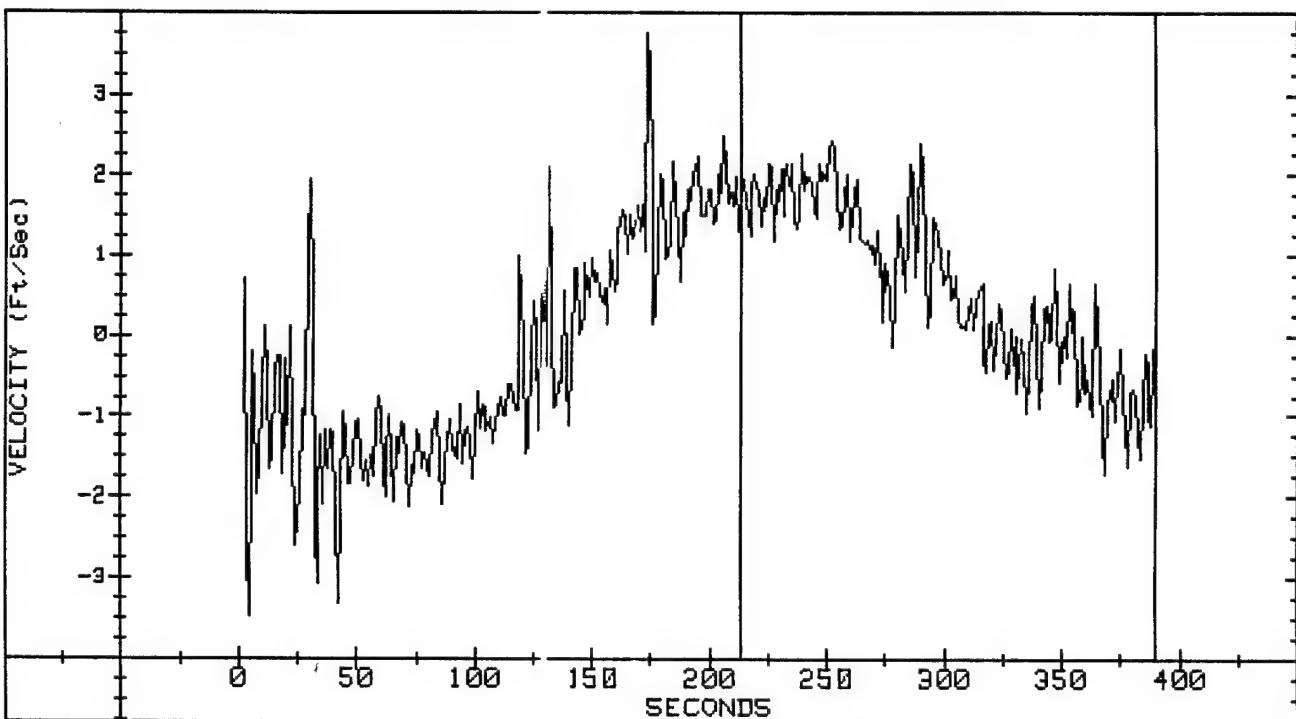


GPS Vv

DAY 179 TIME 1:22

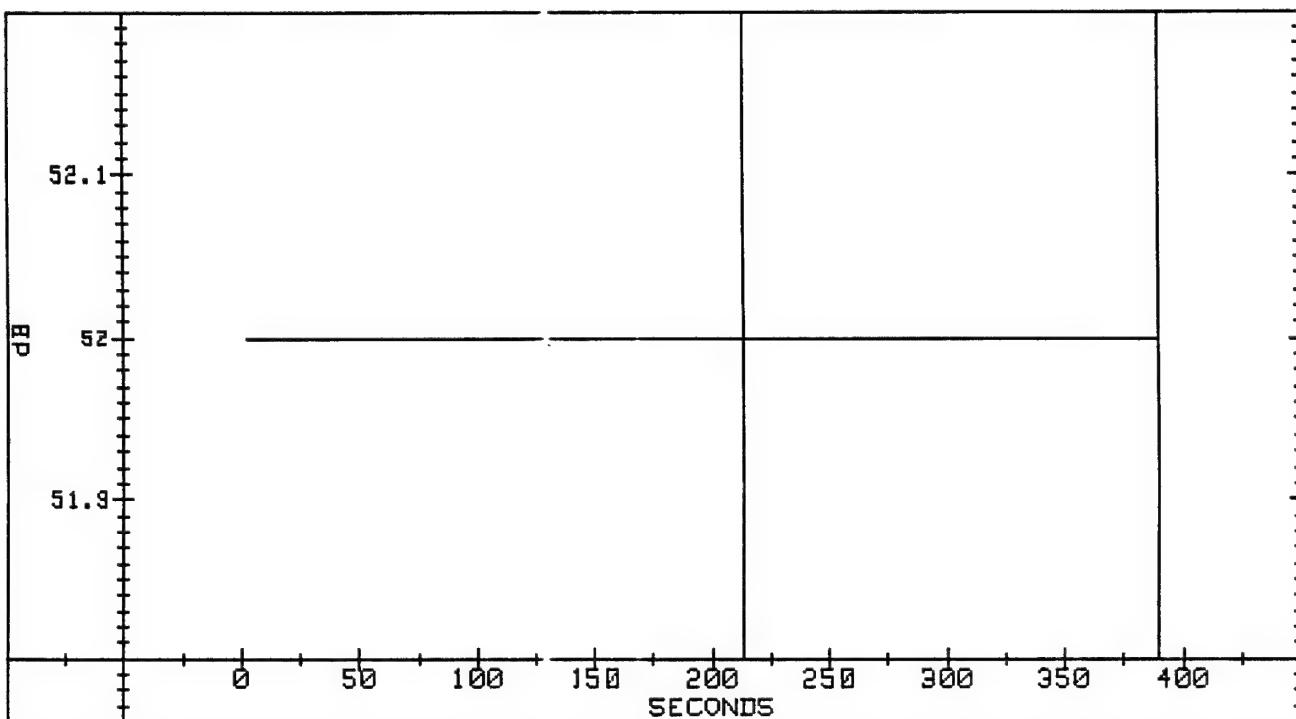
PASS 19

m- .5248, sd- 1.01436



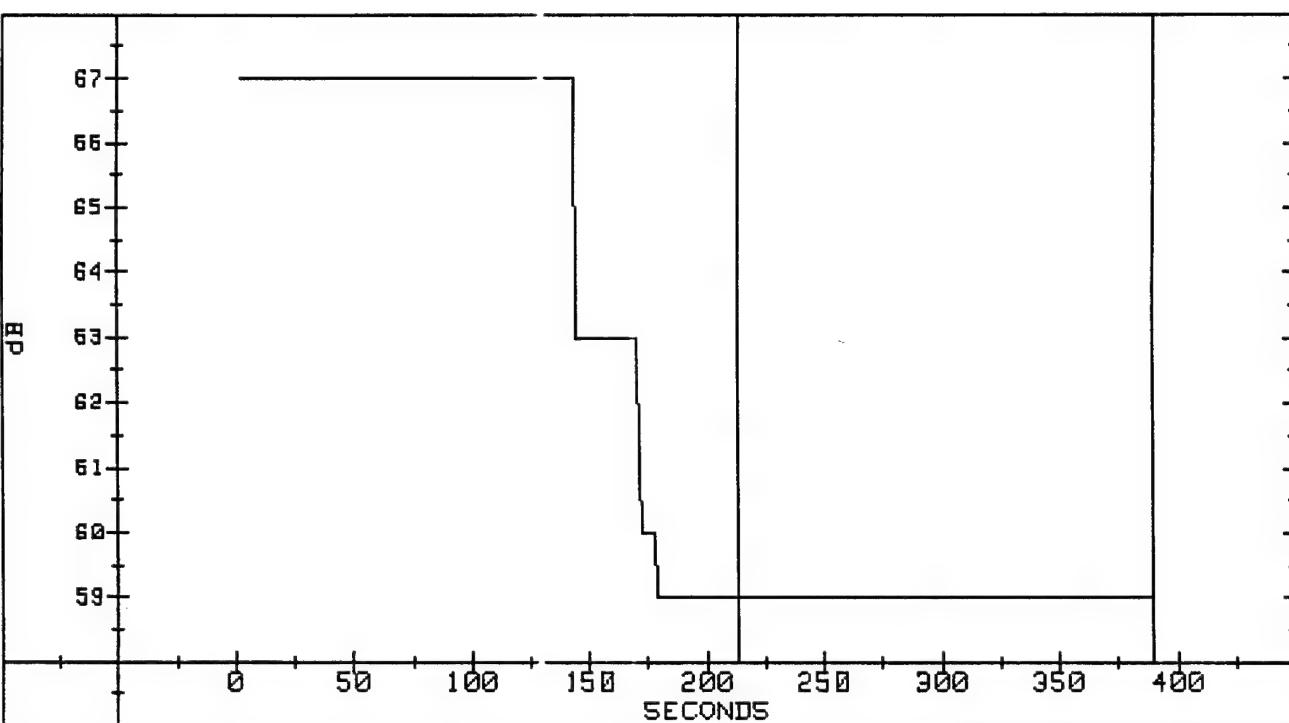
Ch1 RES Attenuation

DAY 179 TIME 1:22 PASS 19 m- 52, sd- 0



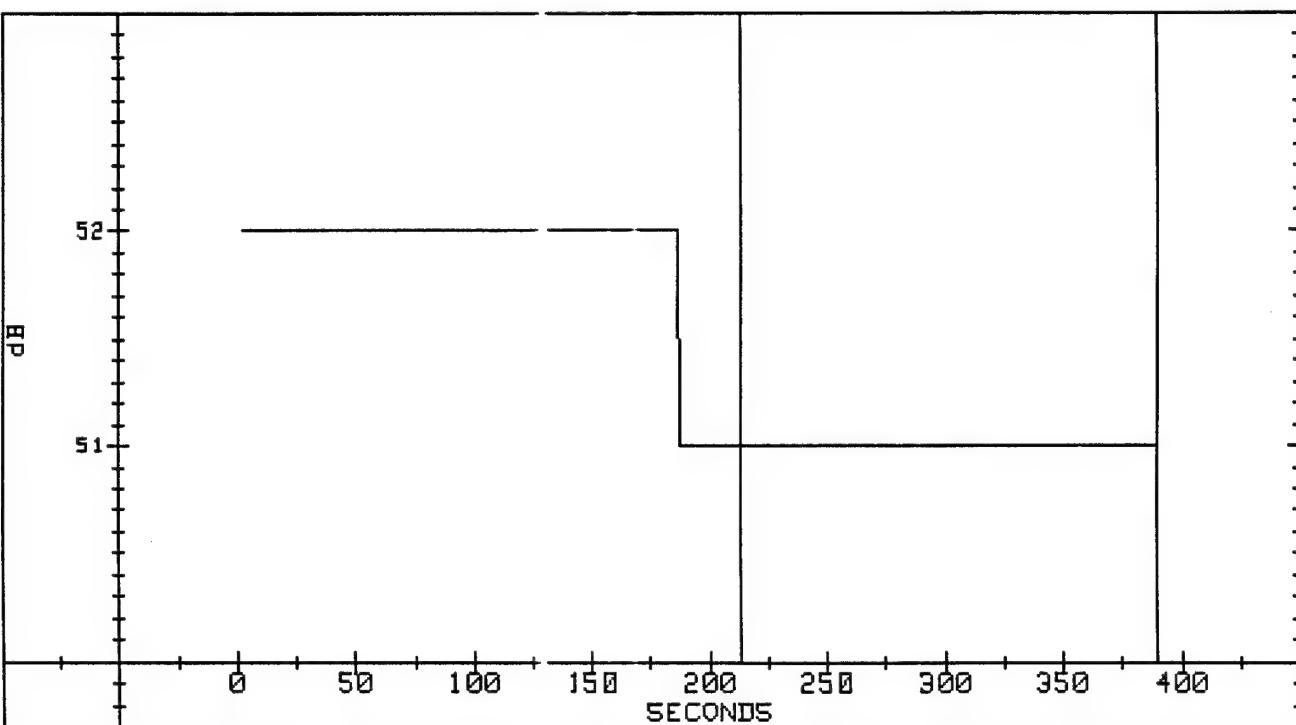
Ch2 RES Attenuation

DAY 179 TIME 1:22 PASS 19 m= 59, sd= 0



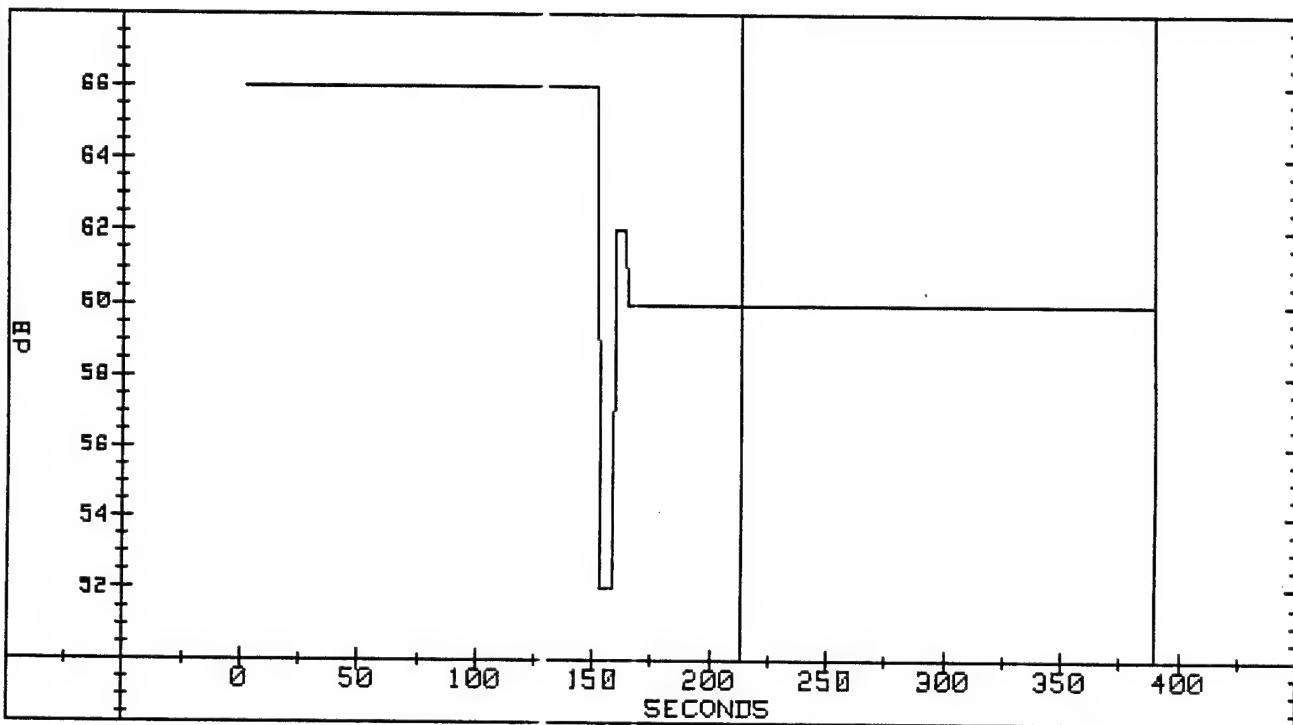
Ch3 RES Attenuation

DAY 179 TIME 1:22 PASS 19 m= 51, sd= 0



Ch4 RES Attenuation

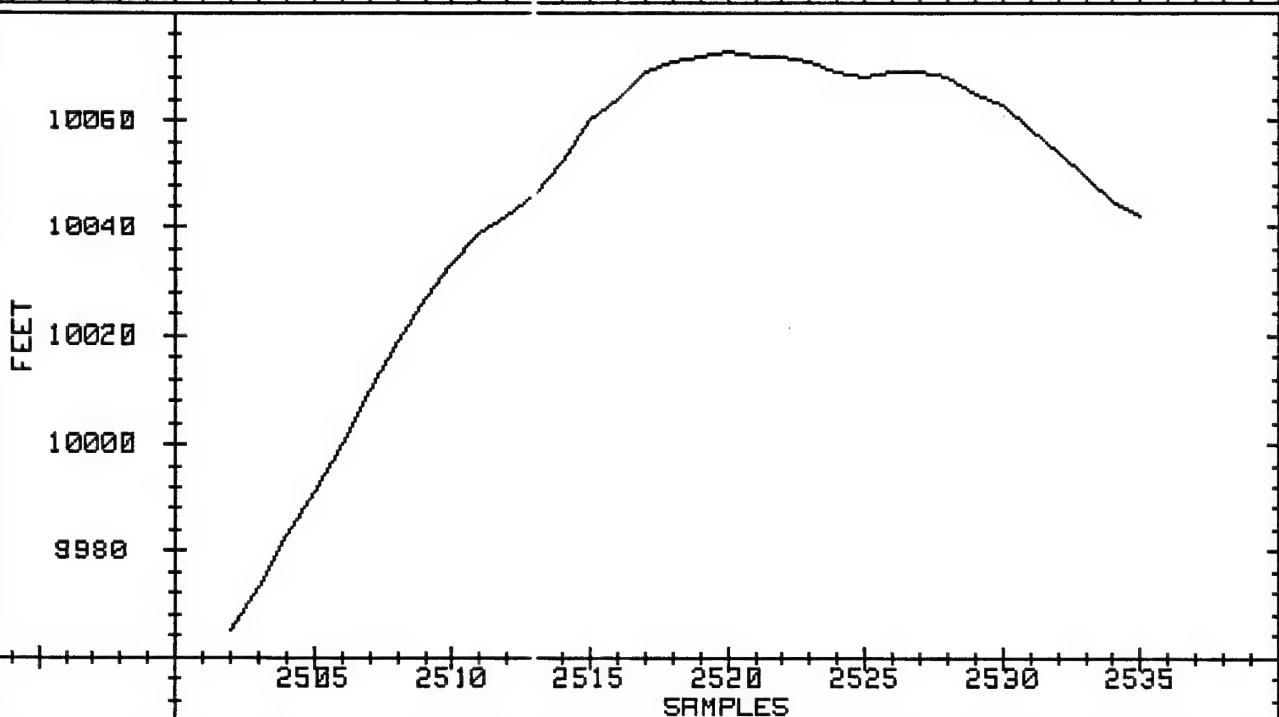
DAY 179 TIME 1:22 PASS 19 m= 60, sd= 0



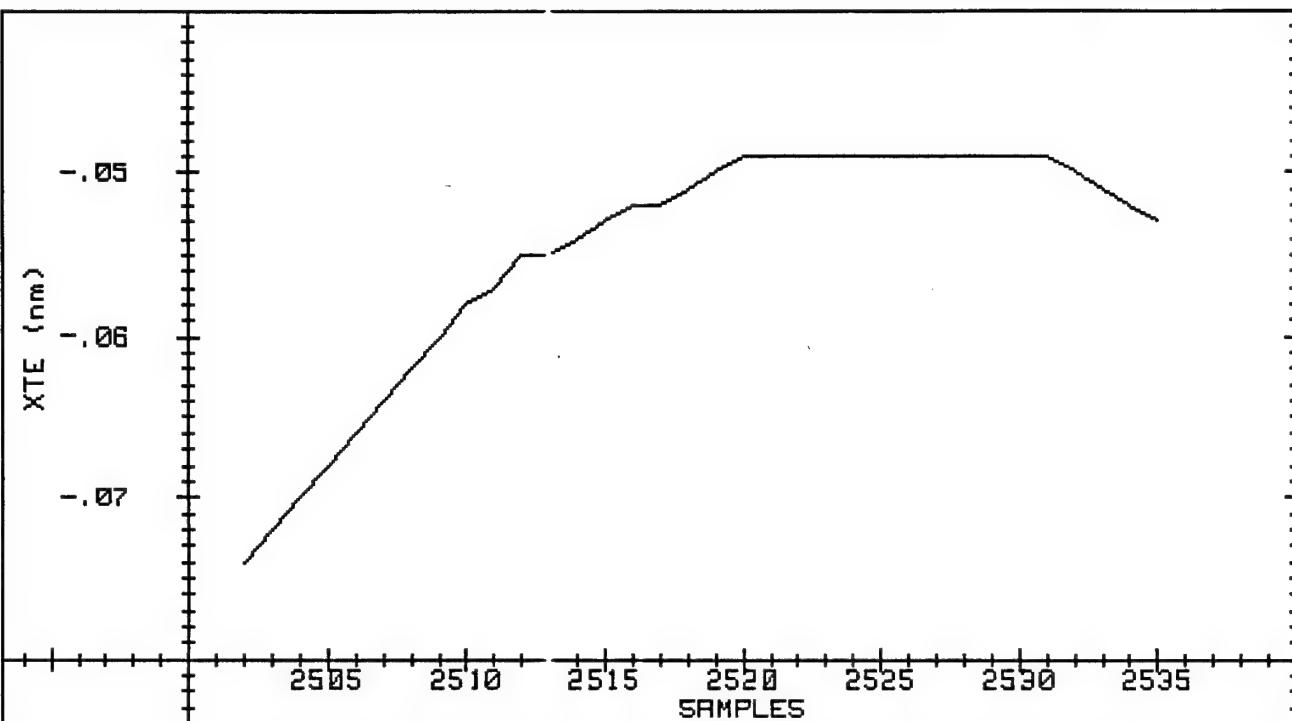
GPS ALTITUDE

MEAN= 10044.8 STANDARD DEVIATION= 30.7272
DATE: June 27, 1995 PASS 19

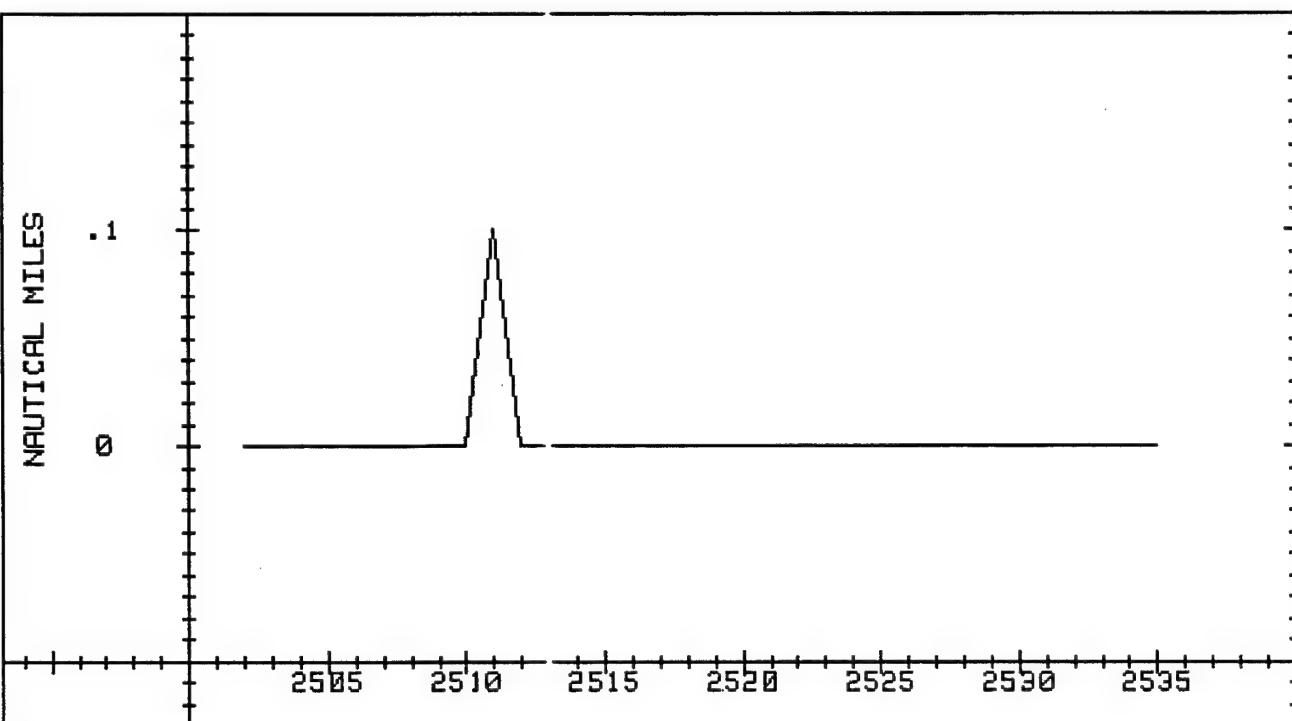
OFF
ON
BRR



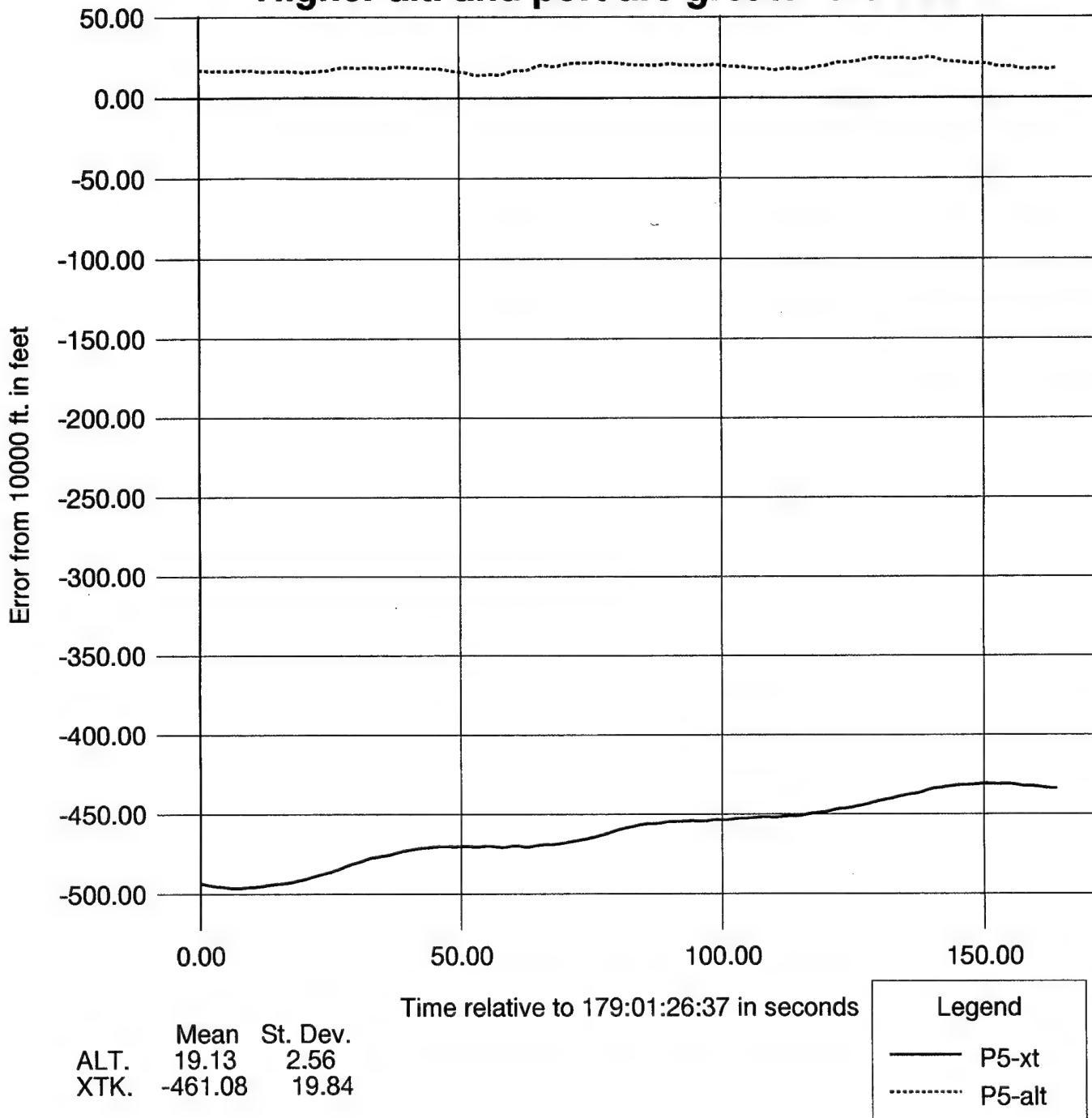
GPS Cross Track Error
MEAN= -.0548118 STANDARD DEVIATION= .00744141
DATE: June 27, 1995 PASS 19



INS CROSS TRACK ERROR
MEAN- .00284118 STANDARD DEVIATION- .0168858
DATE: June 27, 1995 PASS 19



Portage, ME - June 27, 1995 - Pass 19 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero



28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 31
Mission: Presque Isle DAY 3

Time: 179:01:36:25
Pass 20
Req. # 16

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9900 ft s.d. =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	300.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	57.0	61.0	57.0	64.0
End Sq:	90.0°	RMS Video (%FS)	22.3	18.2	19.9	15.8

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:33.32	W 68:09.55	Main Target: IE
Start:	N 46:39.35	W 68:24.60	Mocomp Point:
End:	N 46:44.34	W 68:37.19	Lat: N 46:44.12
From:	N 36:47.45	W 50:29.32	Long: W 68:28.98
To:	N 52:42.60	W 92:36.70	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLNU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 252.0 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -2.6 fpm (s.d.= 3.4)
Ave Fil Vel -> 1.1 fpm (s.d.= 2.9)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 203 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 1460 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 40.2			

Vel Bias	CAL Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 01:36:25
End: 01:39:06

Mocomp Counters

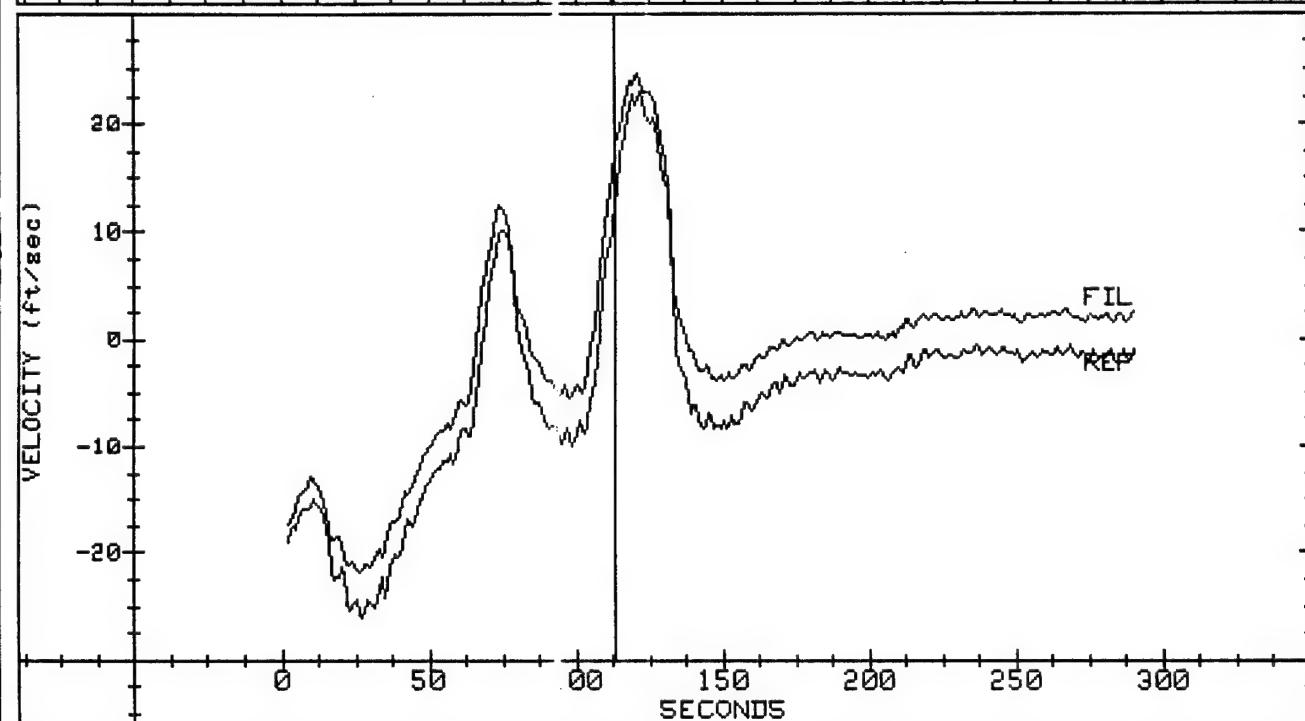
Start: 1180490 0012034Ah
End: 1207494 00120CC6h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

FILTERED vs. REF. VELOCITY

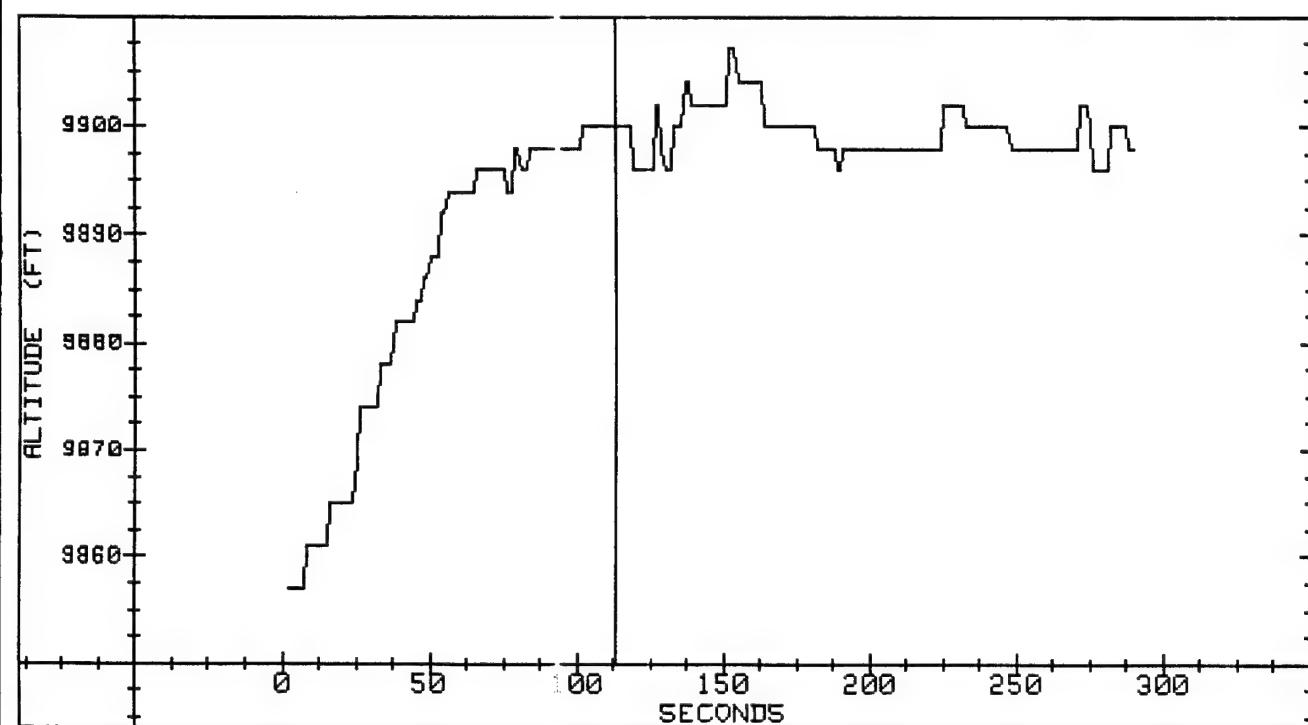
DAY 179 TIME 1:34 PASS 20

ING-
LORAN-
CPG-



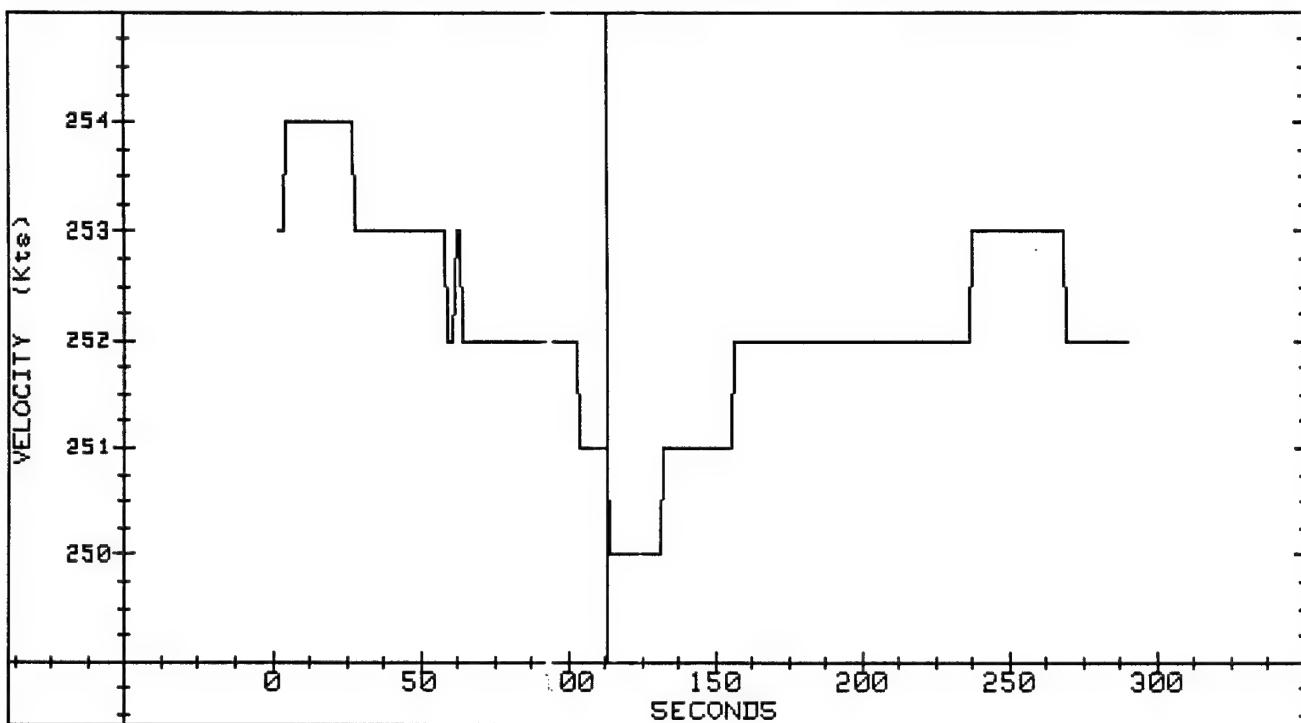
BARO ALTITUDE

DAY 179 TIME 1:34 PASS 20 m- 9900, sd- 2.27928



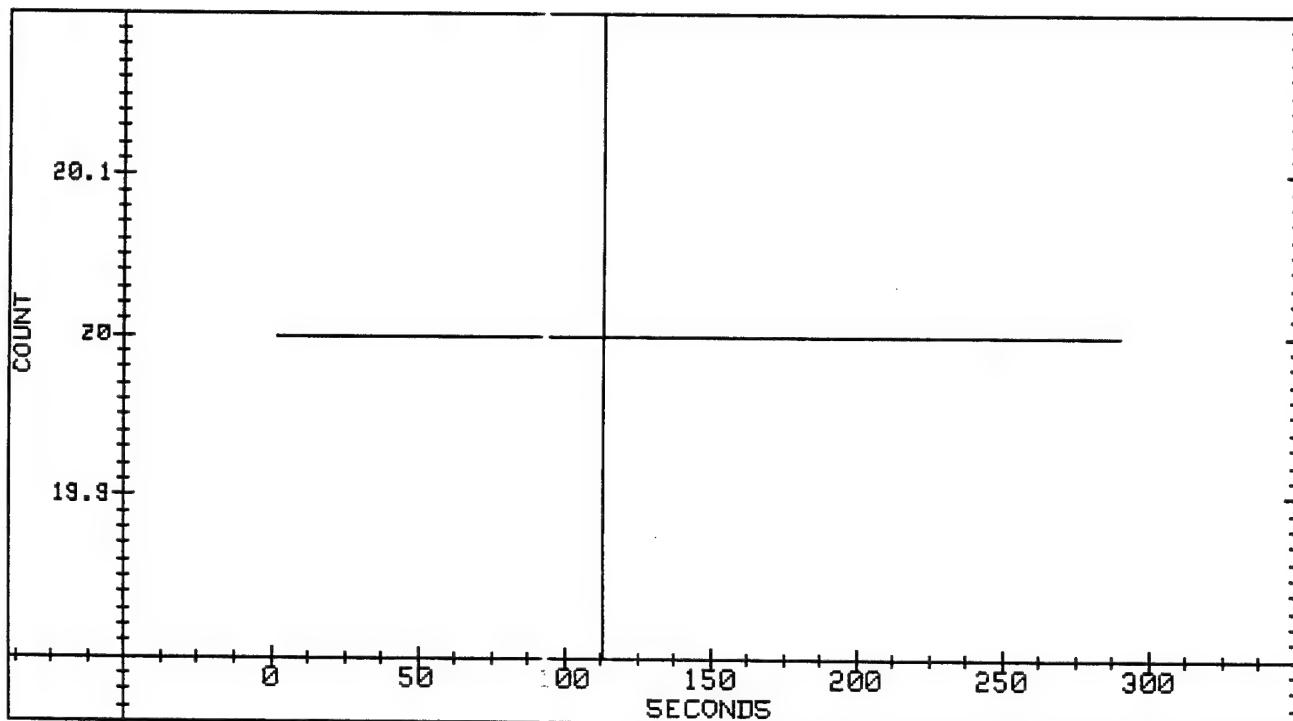
INS GROUND SPEED

DAY 179 TIME 1:34 PASS 20 m= 252, sd= .647766



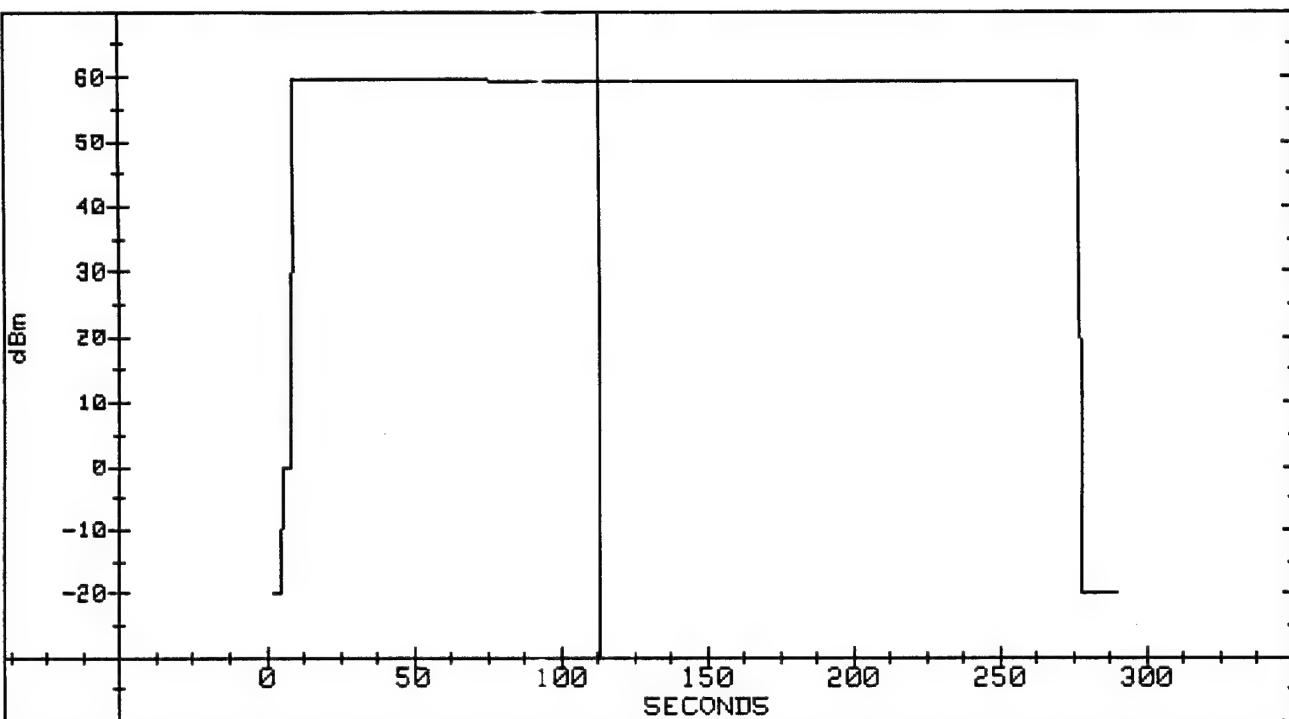
PASS NUMBER

DAY 179 TIME 1:34 PASS 20 m- 20, sd- 0



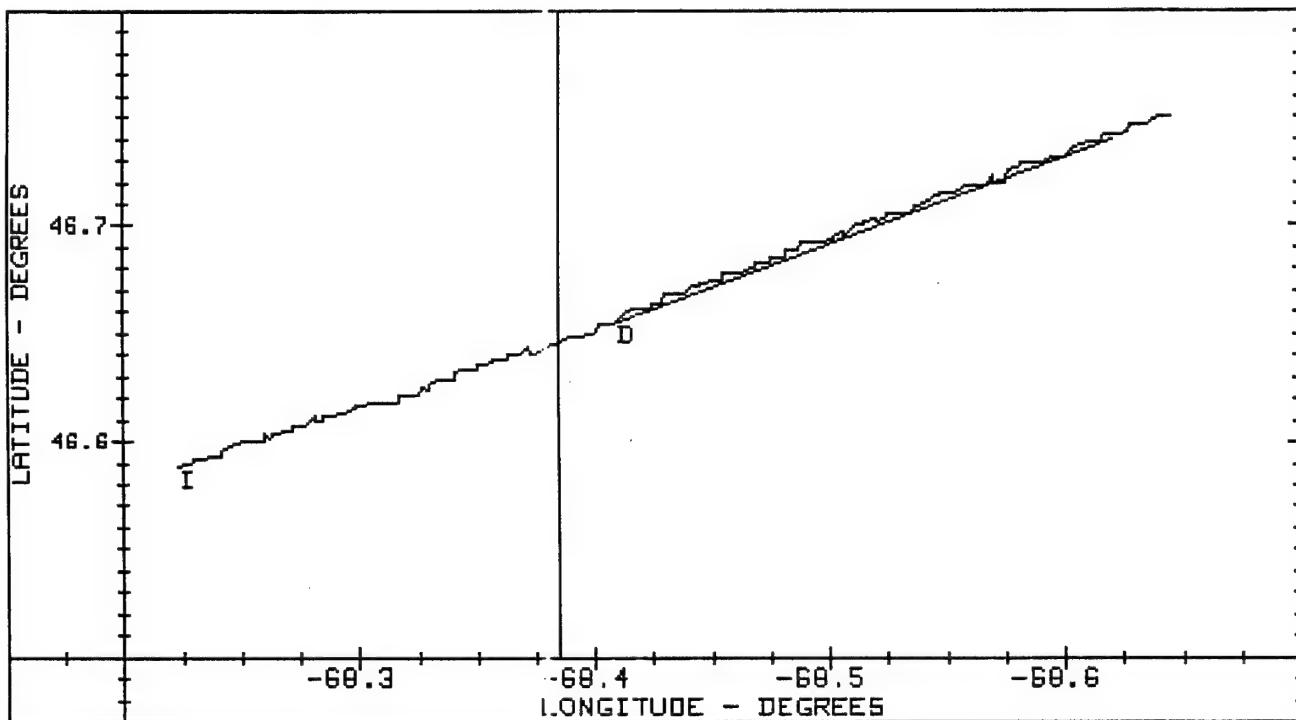
P Band Power

DAY 179 TIME 1:34 PASS 20 m- 52.98, sd- 21.5581



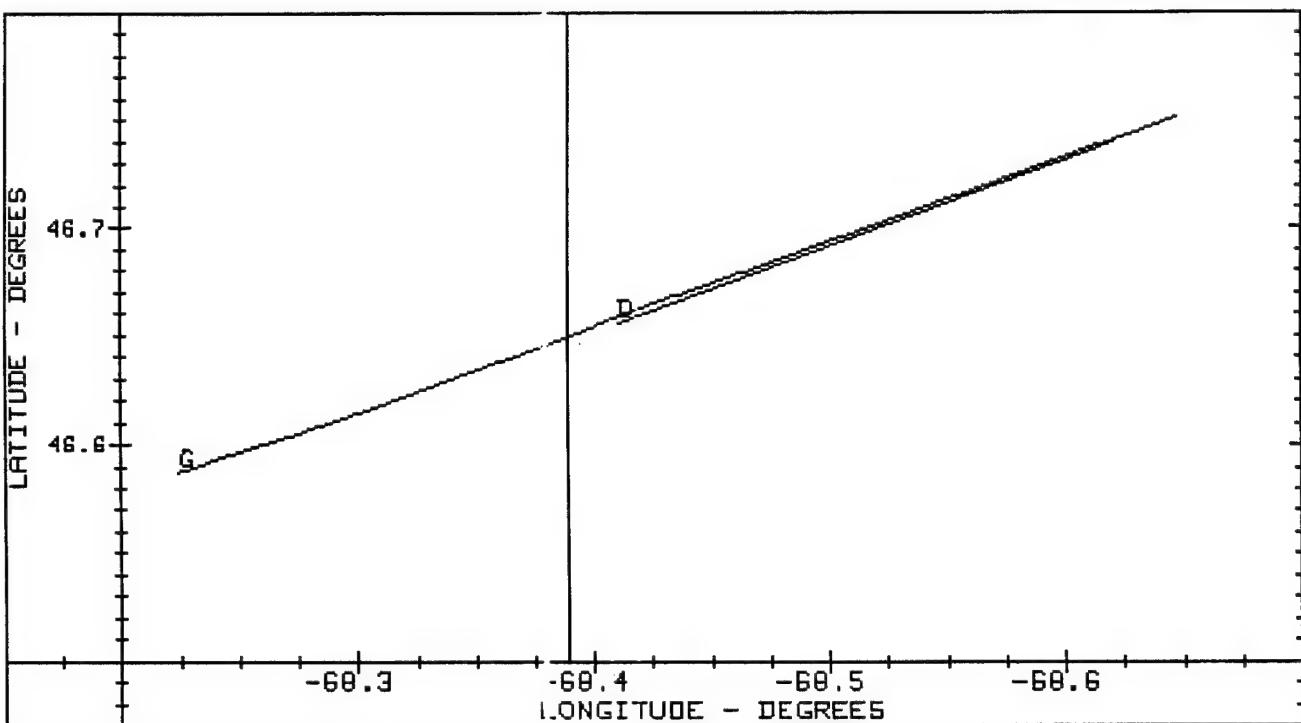
INS AIRCRAFT POSITION

DAY 179 TIME 1:34 PASS 20



GPS AIRCRAFT POSITION

DAY 179 TIME 1:34 PASS 20

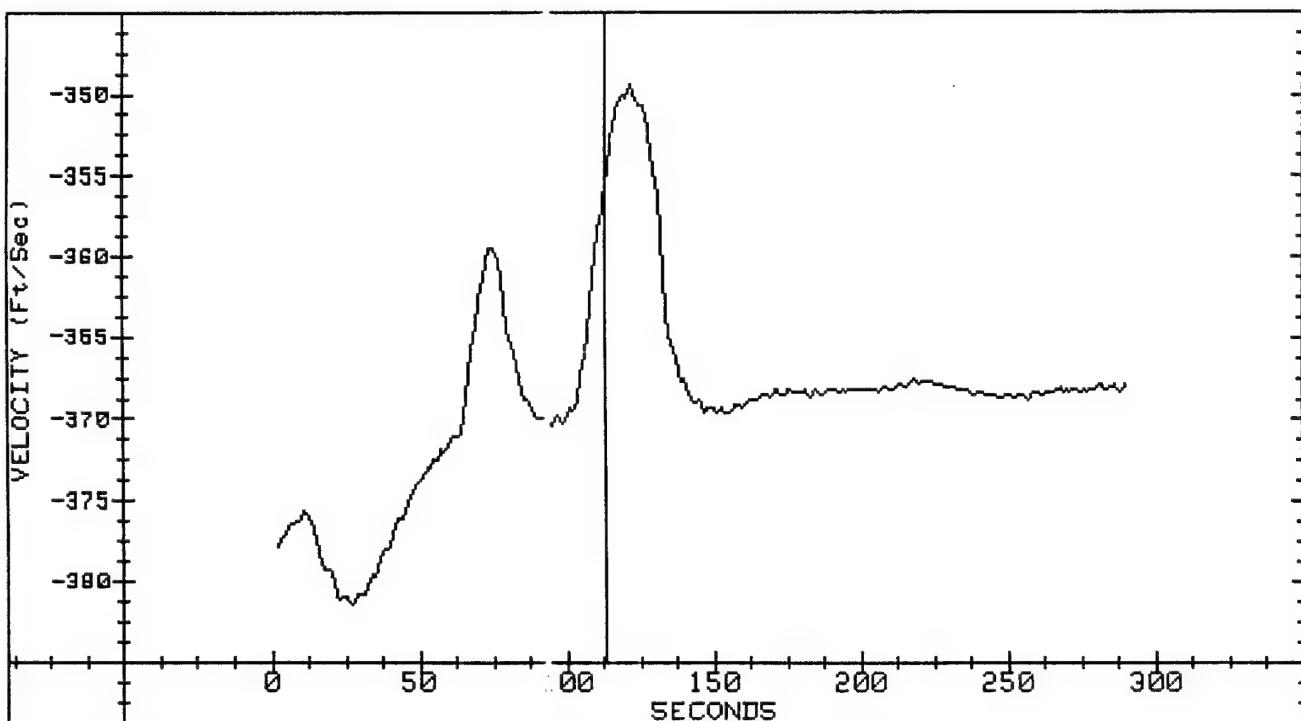


GPS V_B

DAY 179 TIME 1:34

PASS 20

m= -367.9, sd= 2.12109

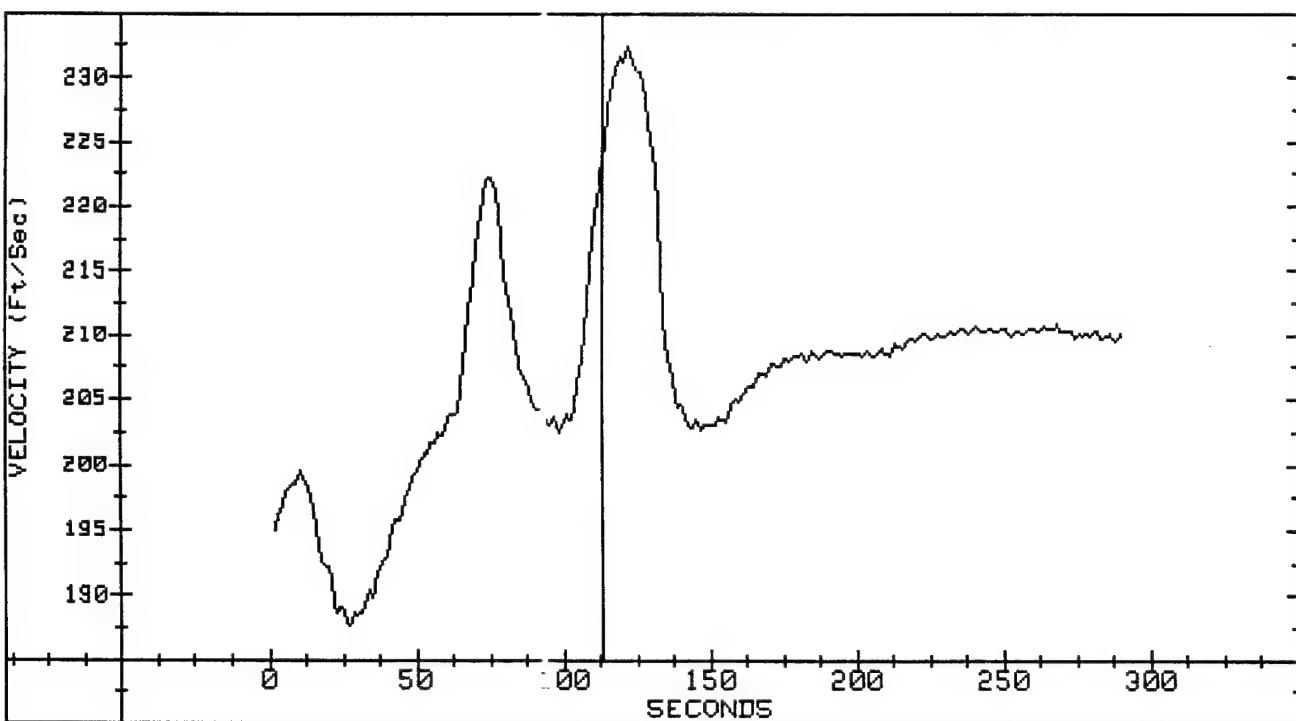


GPS Vn

DAY 179 TIME 1:34

PASS 20

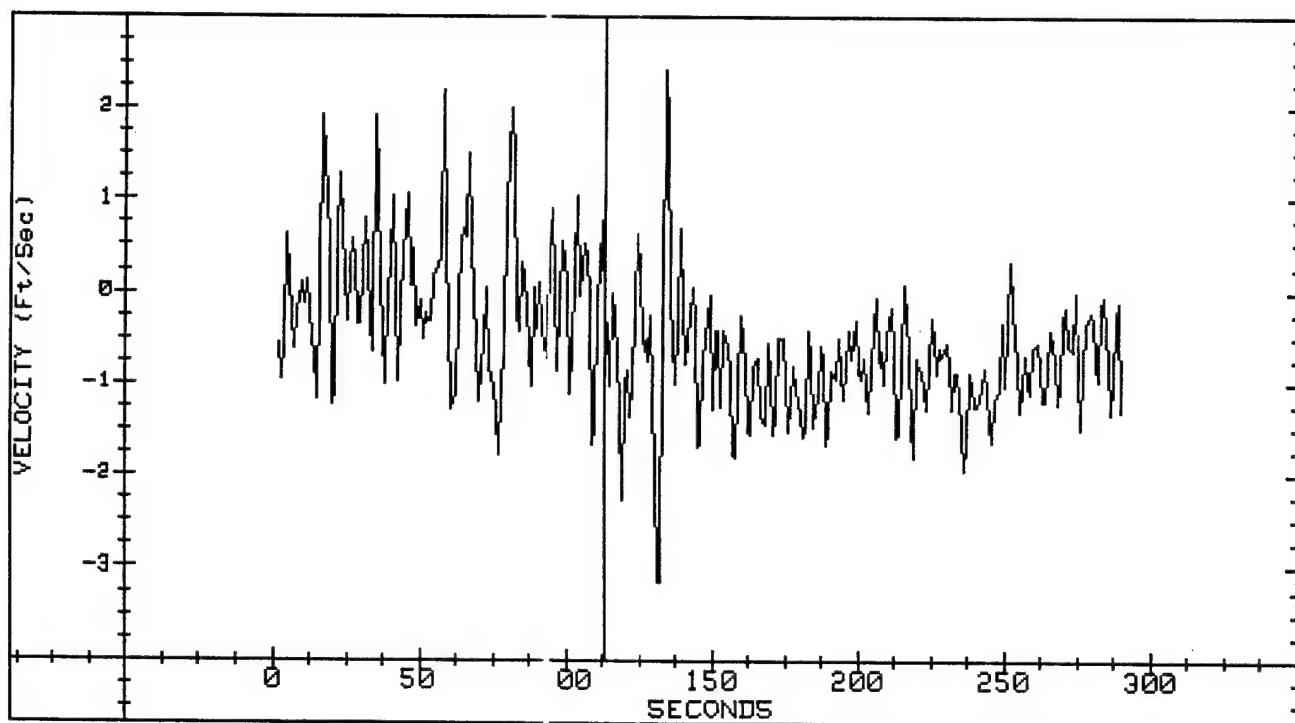
m- 208.9, sd- 3.26752



GPS Vv

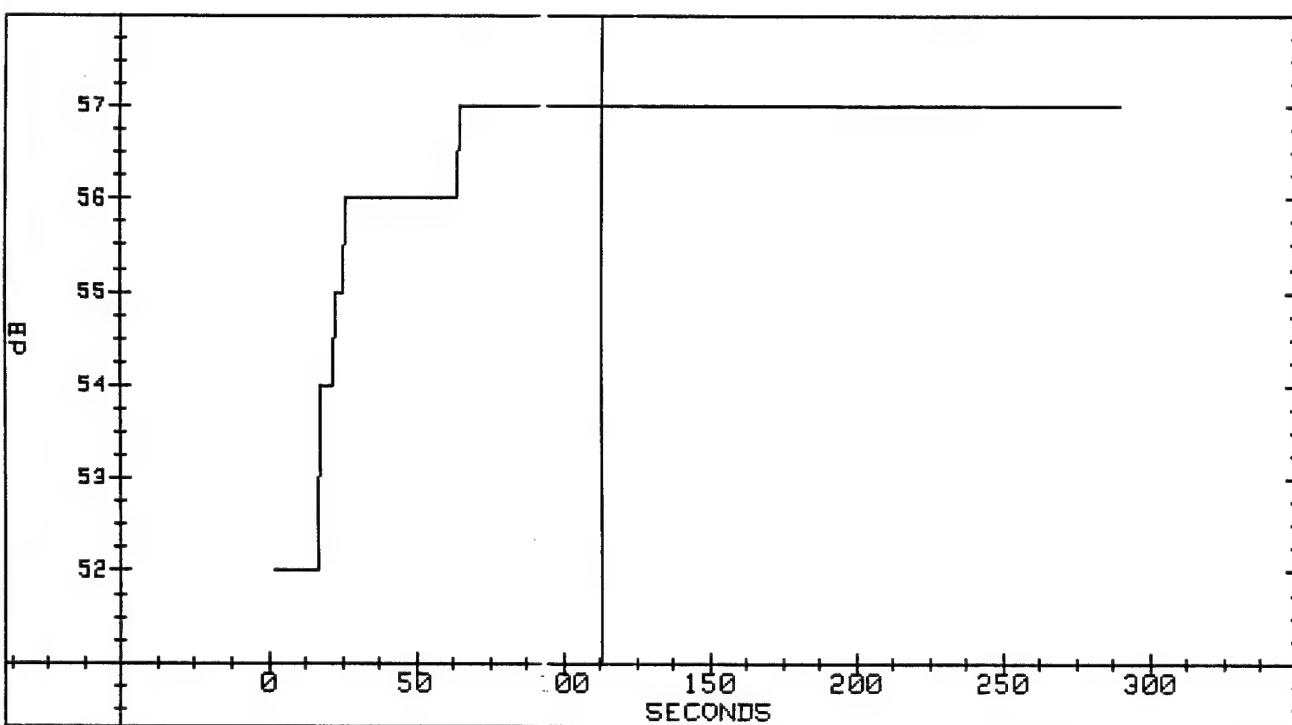
DAY 179 TIME 1:34

PASS 20 m= -.0410, sd= .697422



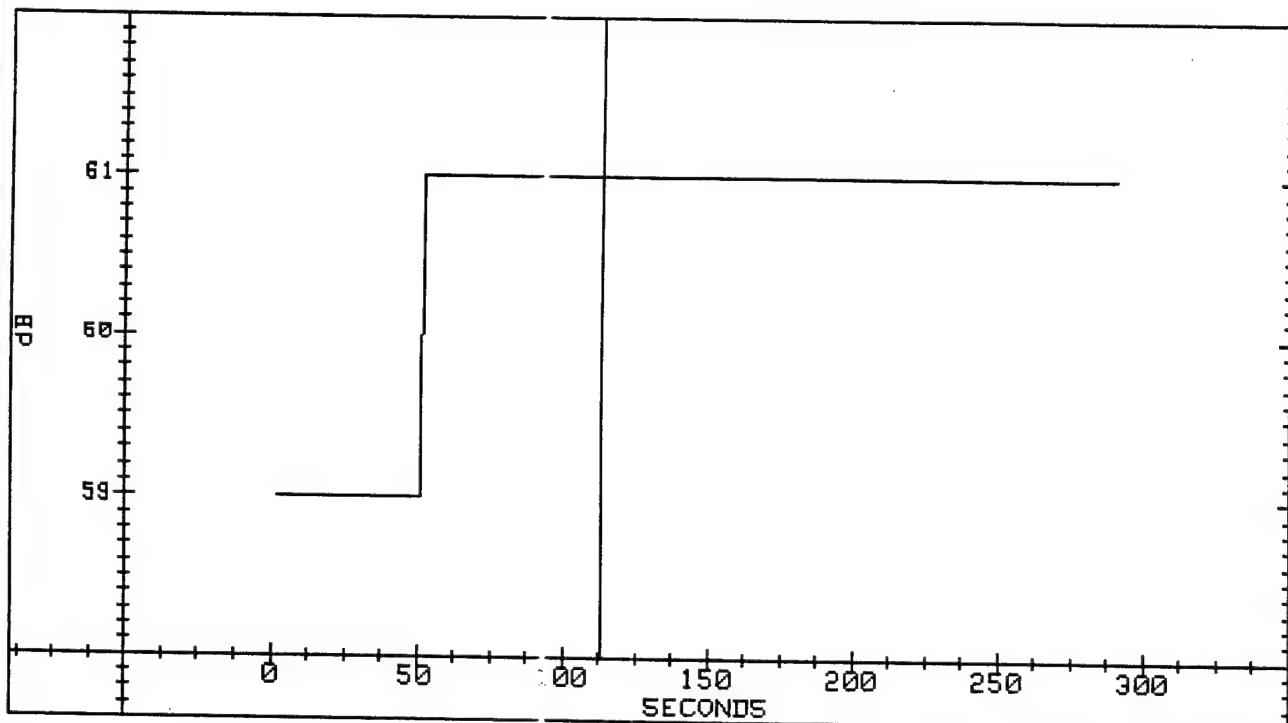
Ch1 RES Attenuation

DAY 179 TIME 1:34 PASS 20 m= 57, sd= 0



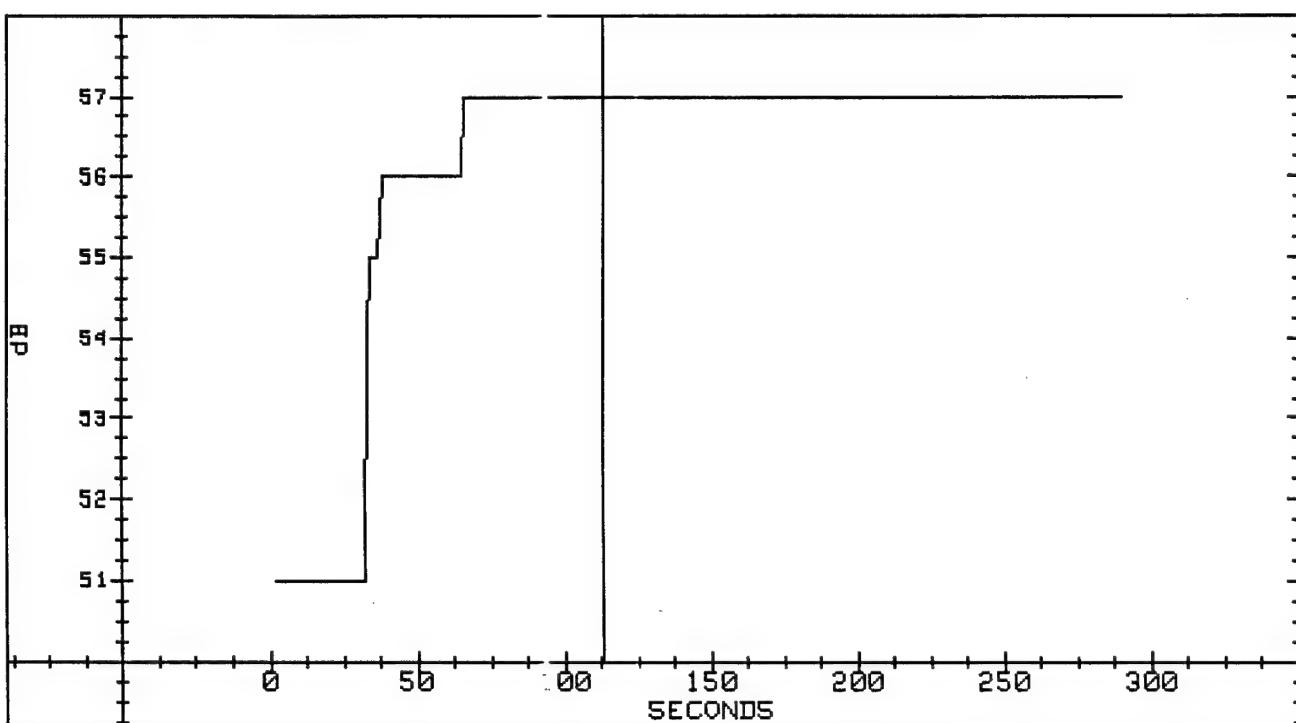
Ch2 RES Attenuation

DAY 179 TIME 1:34 PASS 20 m= 61, sd= 0



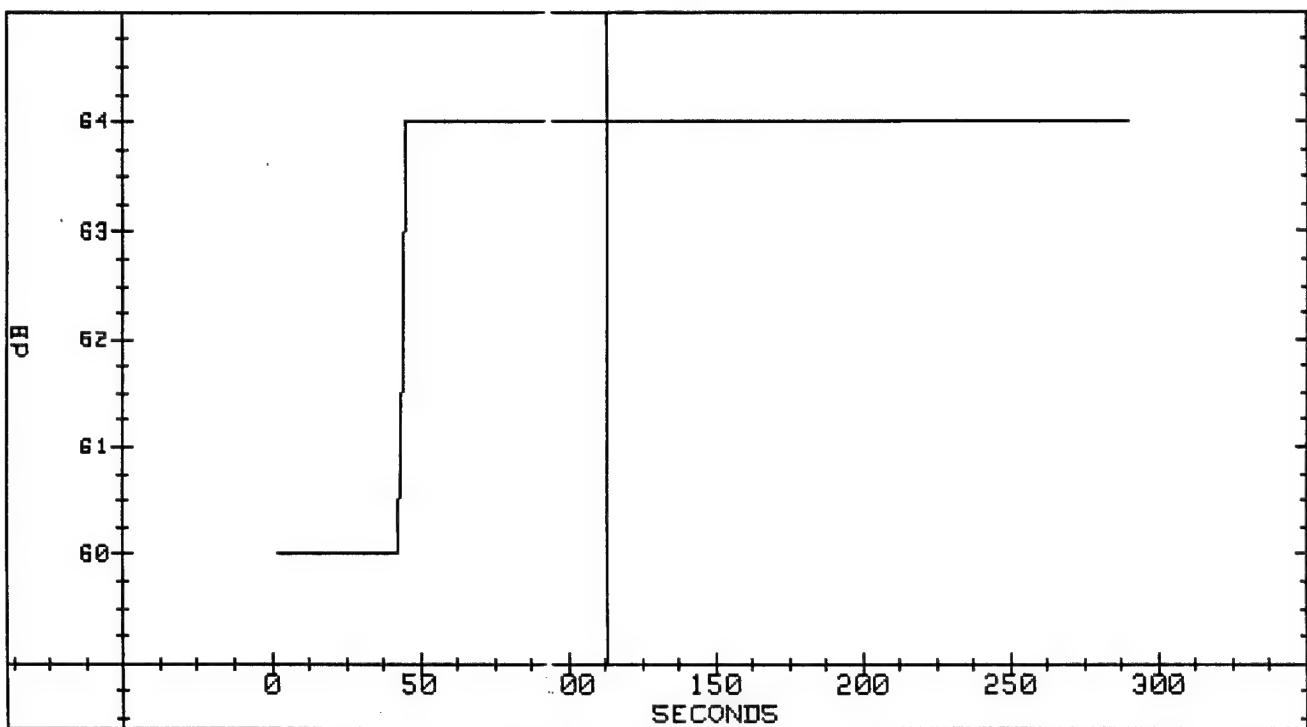
Ch3 RES Attenuation

DAY 179 TIME 1:34 PASS 20 m= 57, sd= 0



Ch4 RES Attenuation

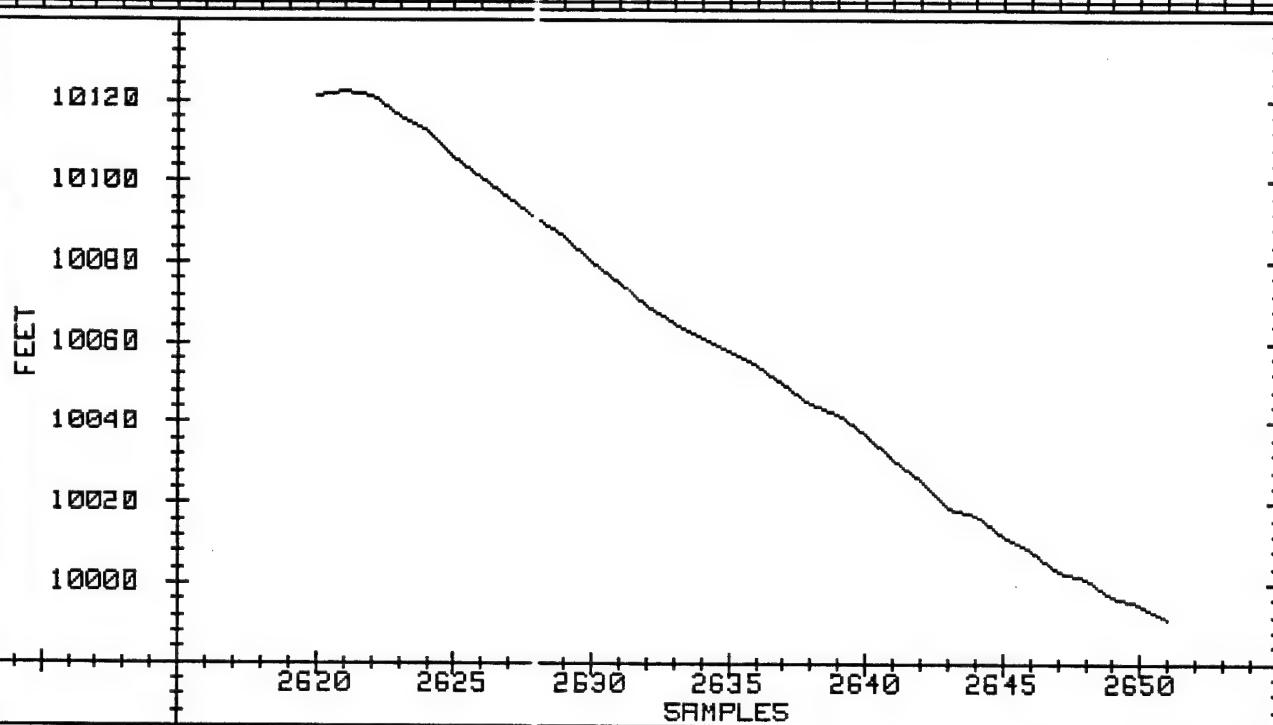
DAY 179 TIME 1:34 PASS 20 m= 64, sd= 0



GPS ALTITUDE

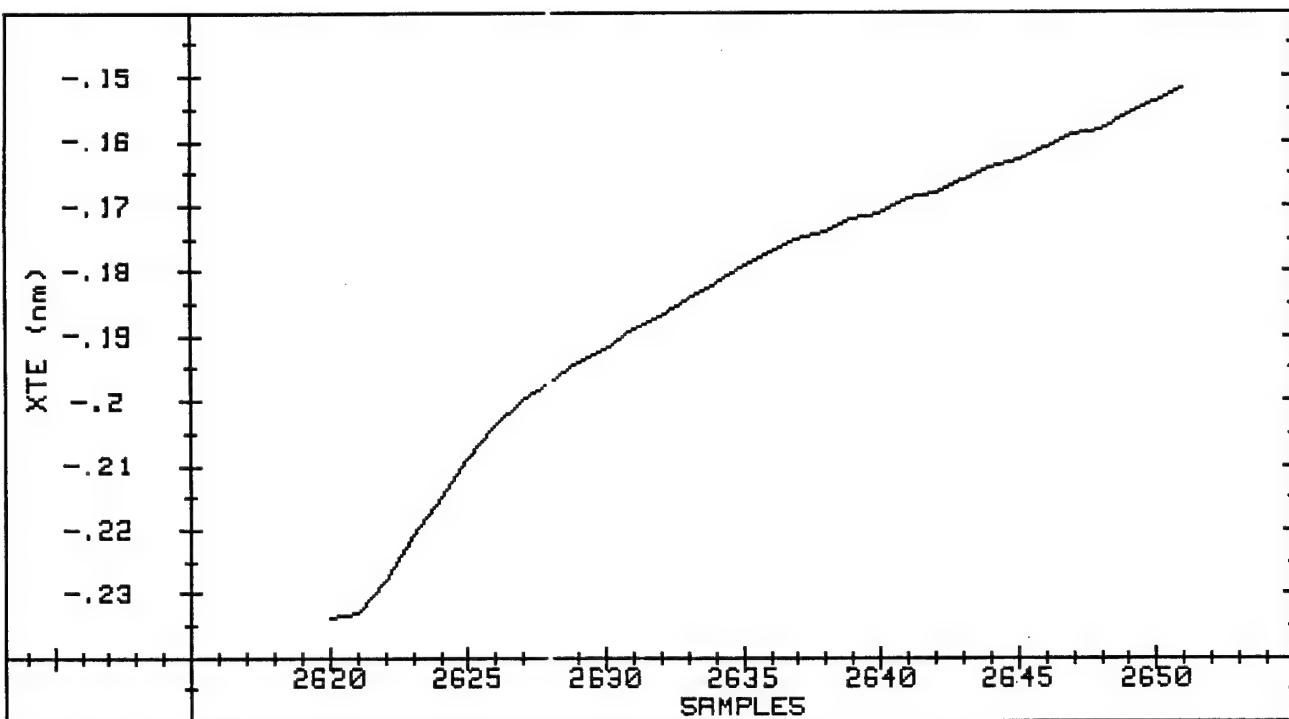
MEAN= 10056.5 STANDARD DEVIATION= 41.6561
DATE: June 27, 1995 PASS 20

OFF
ON
BAR

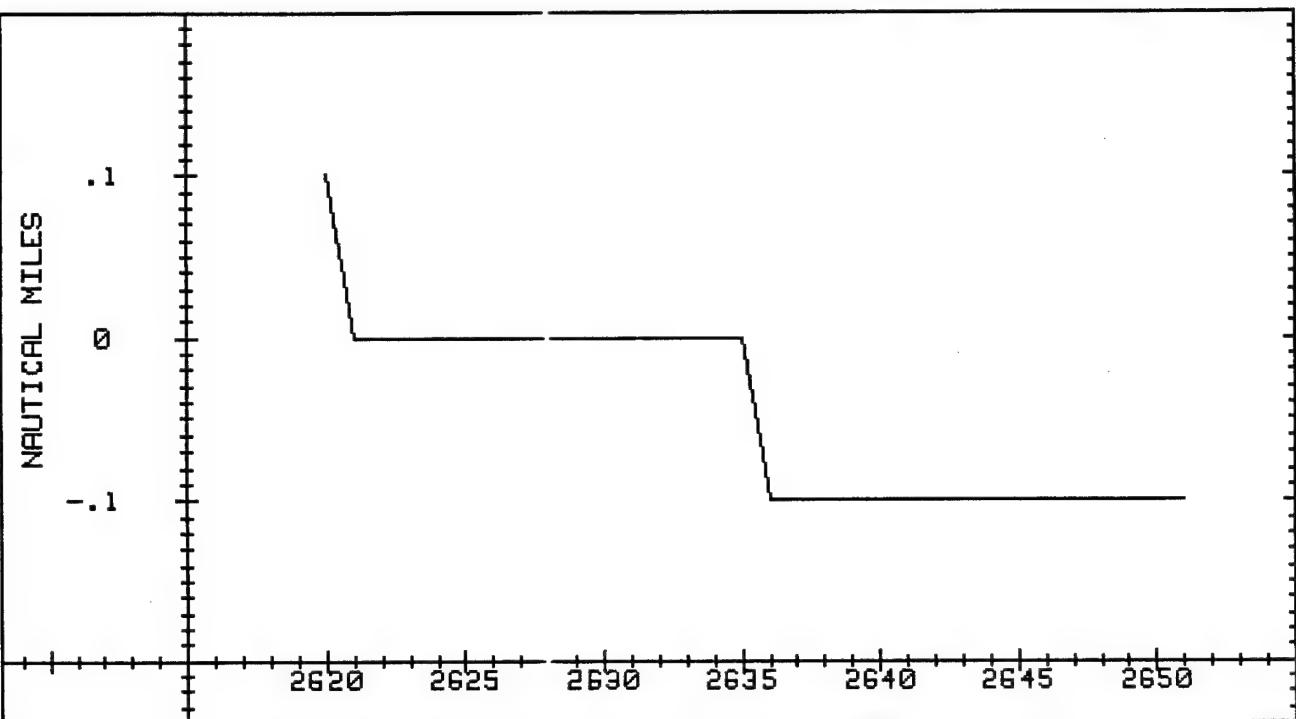


GPS Cross Track Error

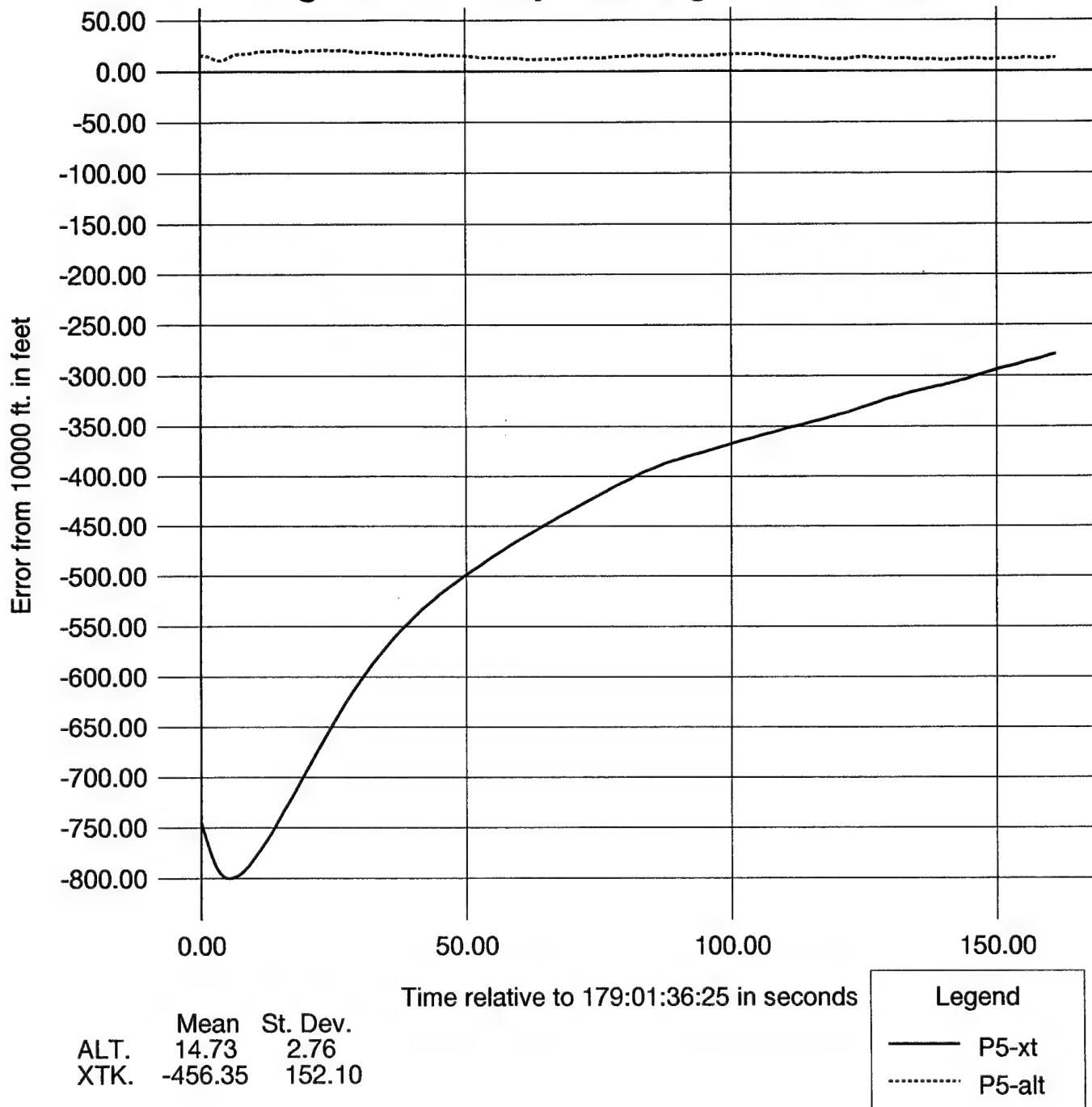
MEAN= -.183868 STANDARD DEVIATION= .0234327
DATE: June 27, 1995 PASS 20



INS CROSS TRACK ERROR
MEAN= -.046875 STANDARD DEVIATION= .0558143
DATE: June 27, 1995 PASS 20



Portage, ME - June 27, 1995 - Pass 20 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero



28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 33
Mission: Presque Isle DAY 3

Time: 179:01:49:45
Pass 21
Req.# 17

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9900 ft s.d. =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	60.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	53.0	63.0	53.0	66.0
End Sq:	90.0°	RMS Video (%FS)	23.4	15.0	17.5	14.0

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:37.87	W 68:52.25	Main Target: IE
Start:	N 46:43.90	W 68:37.18	Mocomp Point:
End:	N 46:48.90	W 68:24.59	Lat: N 46:44.12
From:	N 36:51.35	W 86:33.02	Long: W 68:28.98
To:	N 52:47.34	W 44:22.84	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 247.2 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLU2B	RX Chirp Filename: CRL1NOA

Ave Ref Vel -> 3.3 fps (s.d.= 7.2)
Ave Fil Vel -> 7.5 fps (s.d.= 6.8)

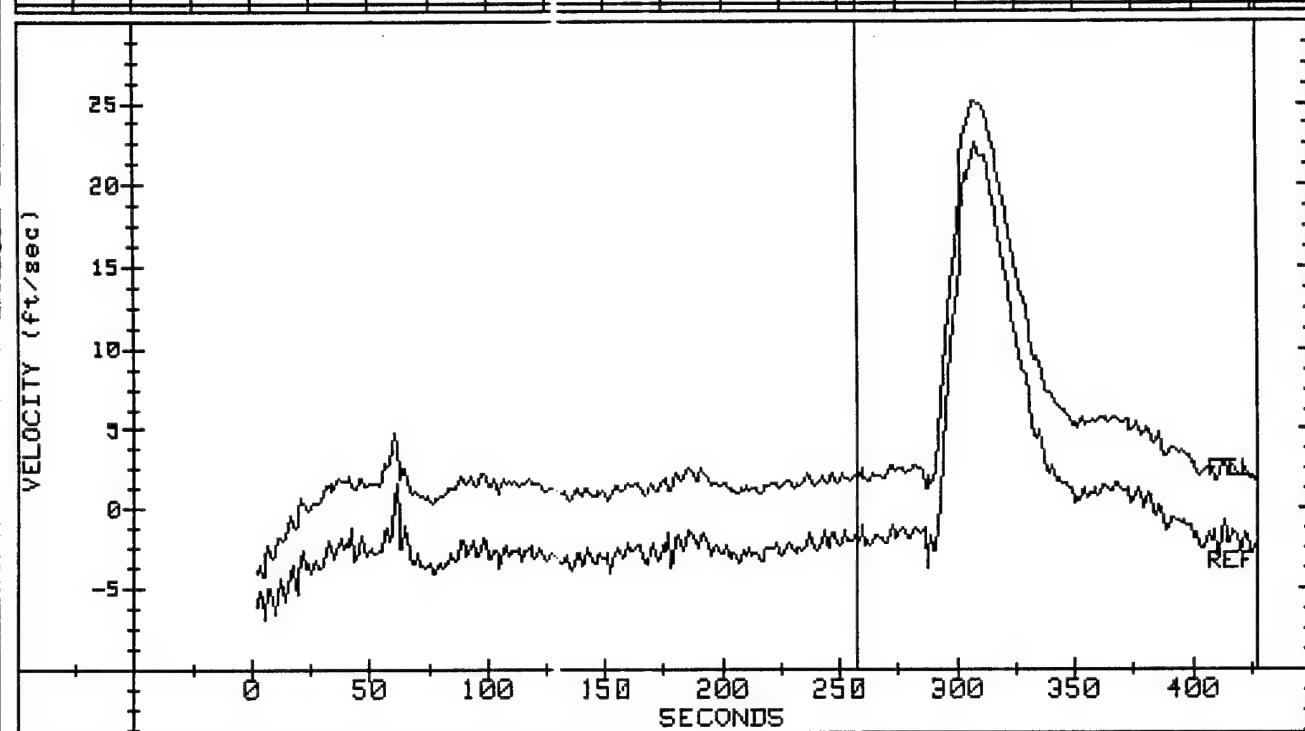
NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 1476 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 2683 ft	(1)
P: 40.1			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 01:49:45
Y: 1867.0	L: 63.8 dB	End: 01:52:25
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1252216 0013:0B78h	Alt: 0 ft (GPS)
End: 1279011 0013:0423h	Lat: N 0:00: 0
	Lon: E 0:00: 0

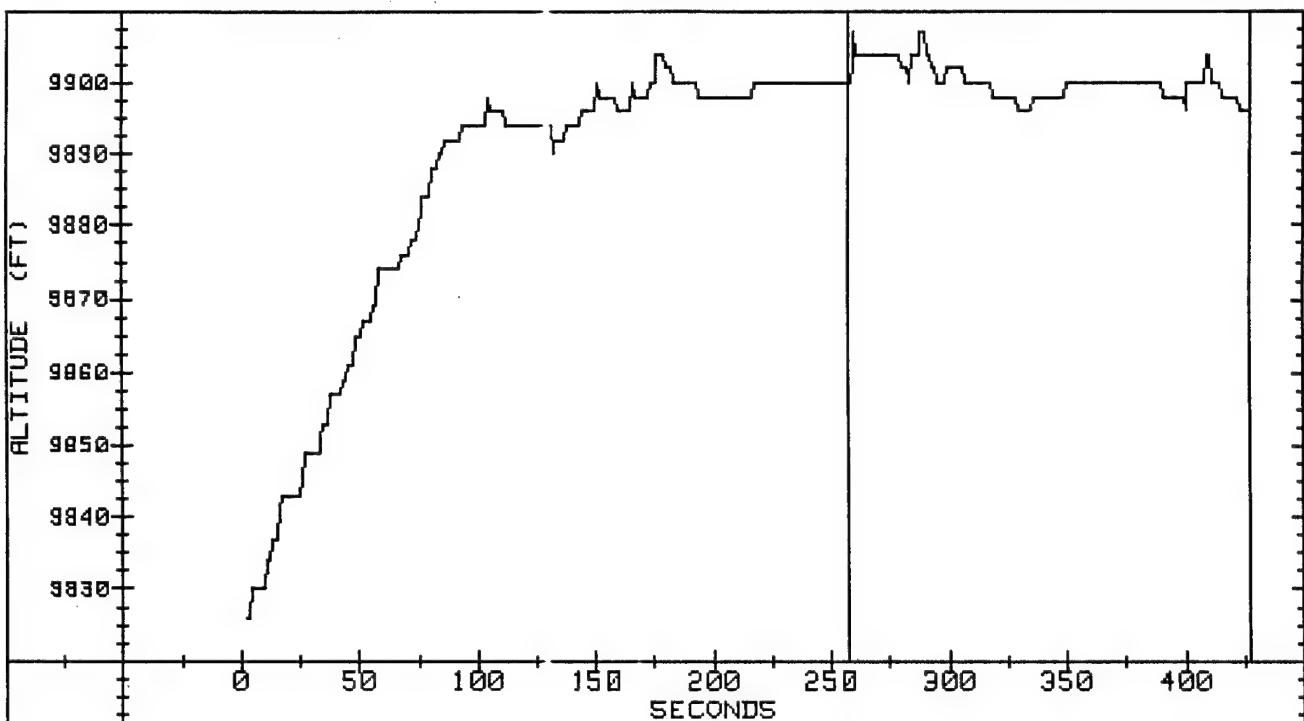
FILTERED vs. REF. VELOCITY
DAY 179 TIME 1:45 PASS 21

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GPS



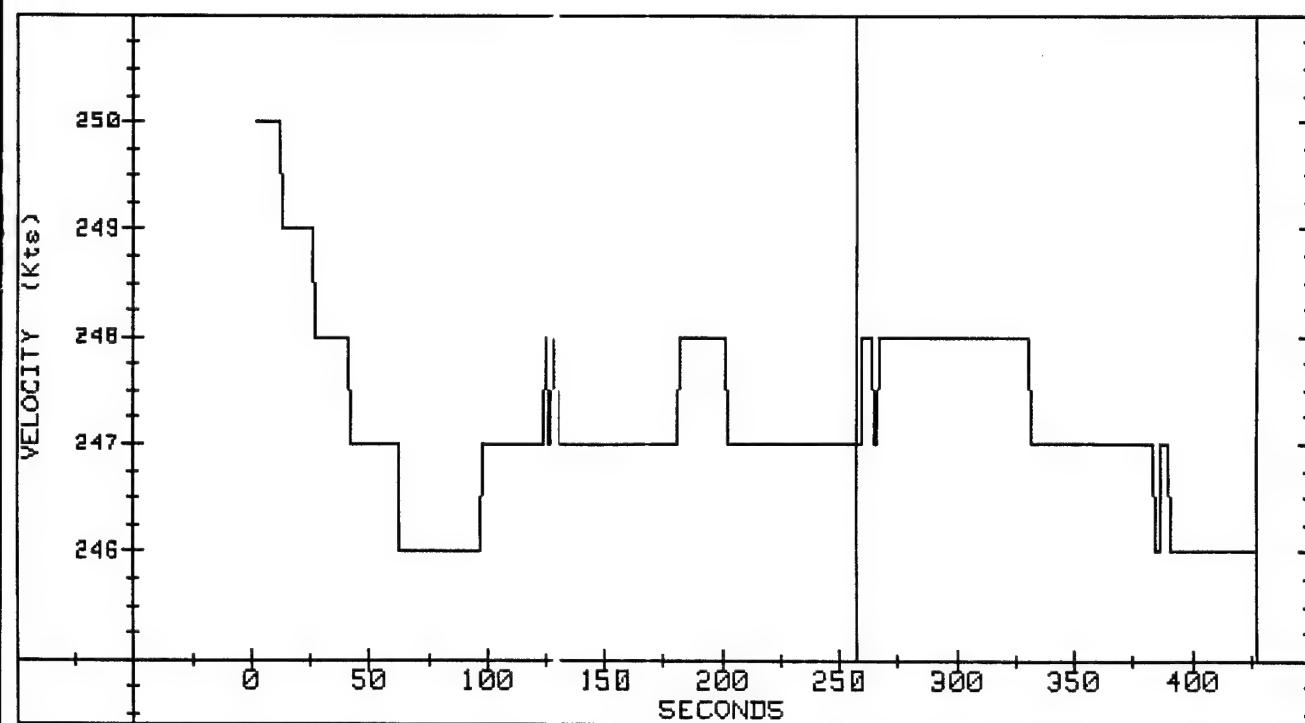
HARO ALTITUDE

DAY 179 TIME 1:45 PASS 21 m= 9900, sd= 2.36826



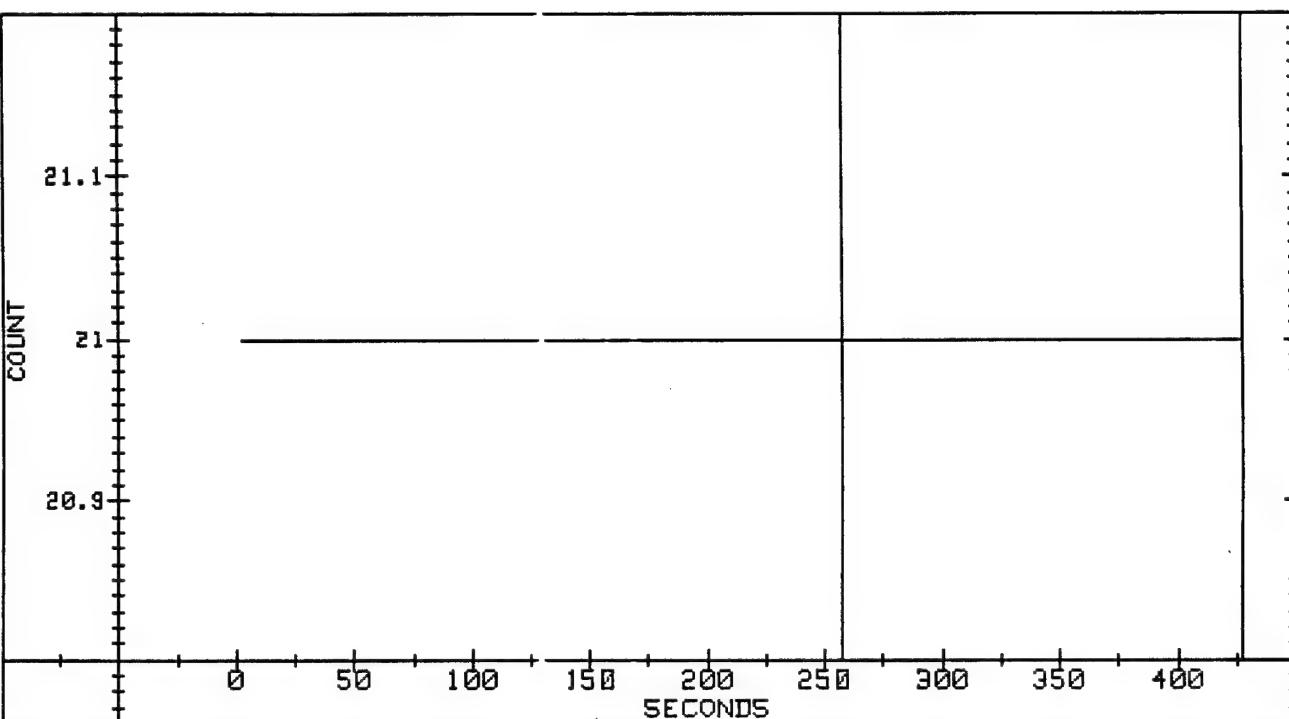
INS GROUND SPEED

DAY 179 TIME 1:45 PRSS 21 m- 247.2, sd- .792504



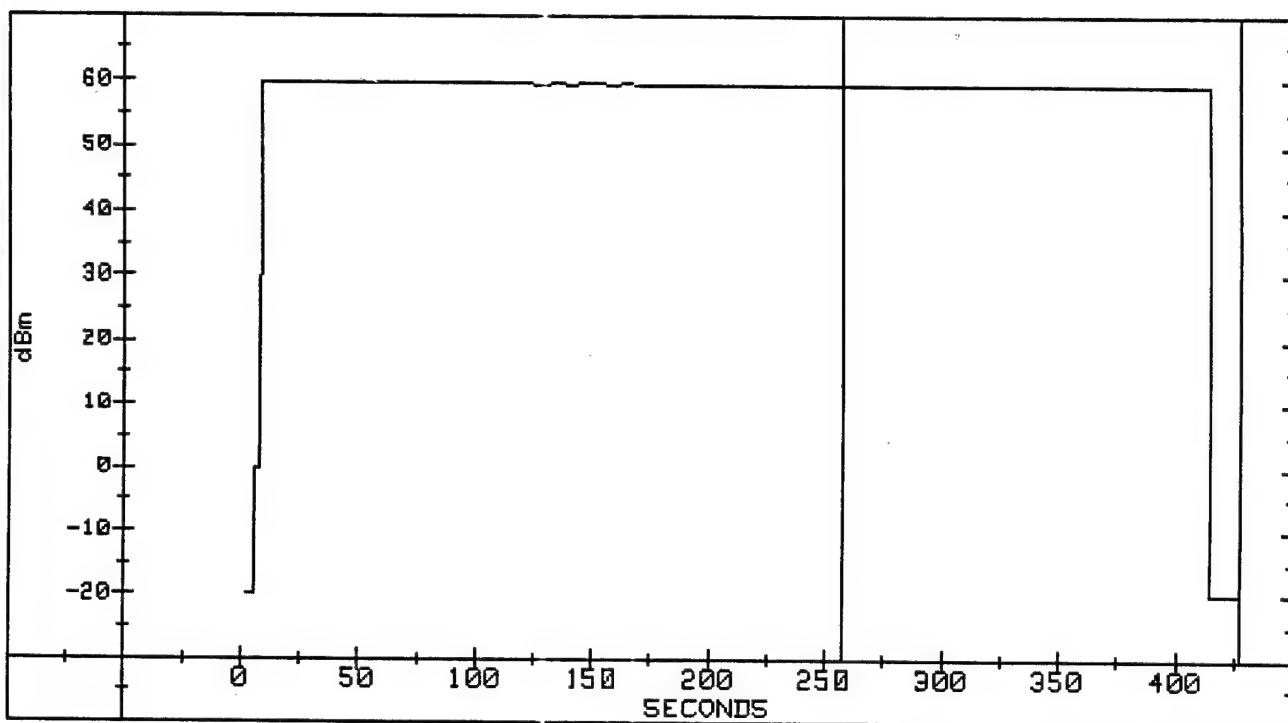
PASS NUMBER

DAY 179 TIME 1:45 PASS 21 m- 21, sd- 0



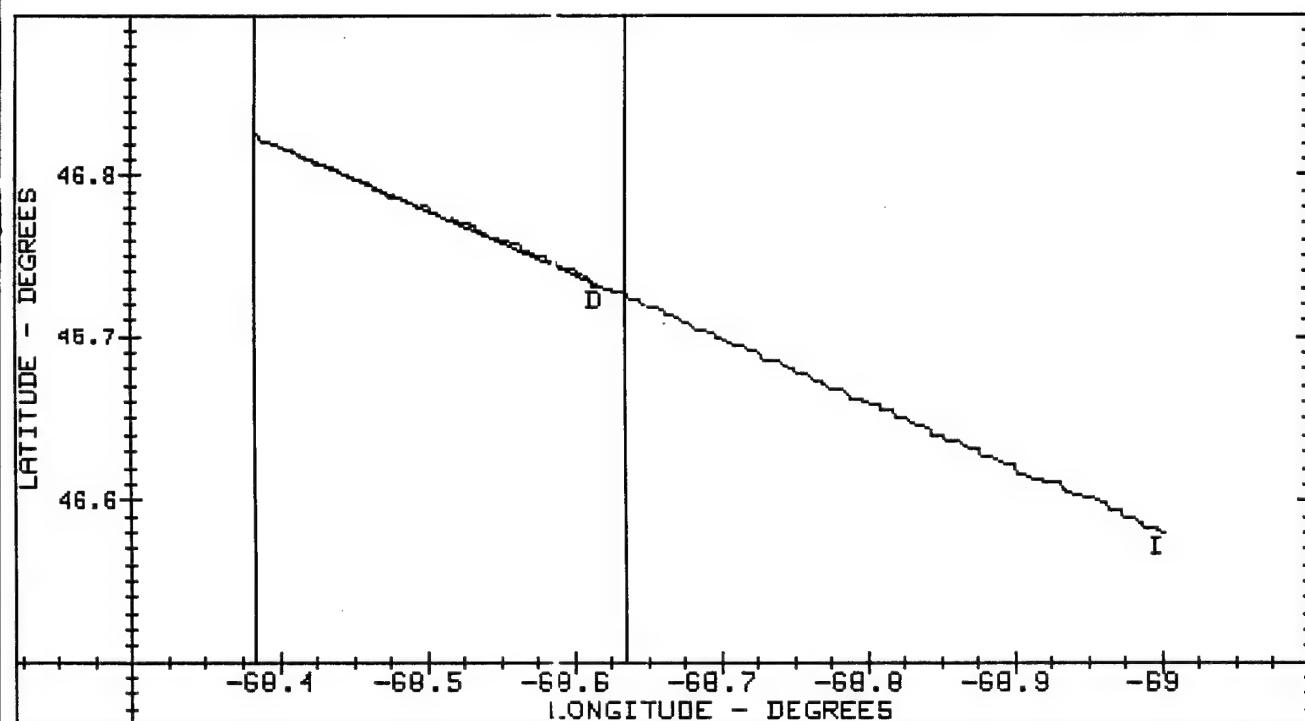
P Band Power

DAY 179 TIME 1:45 PASS 21 m- 52.93, sd- 21.6130



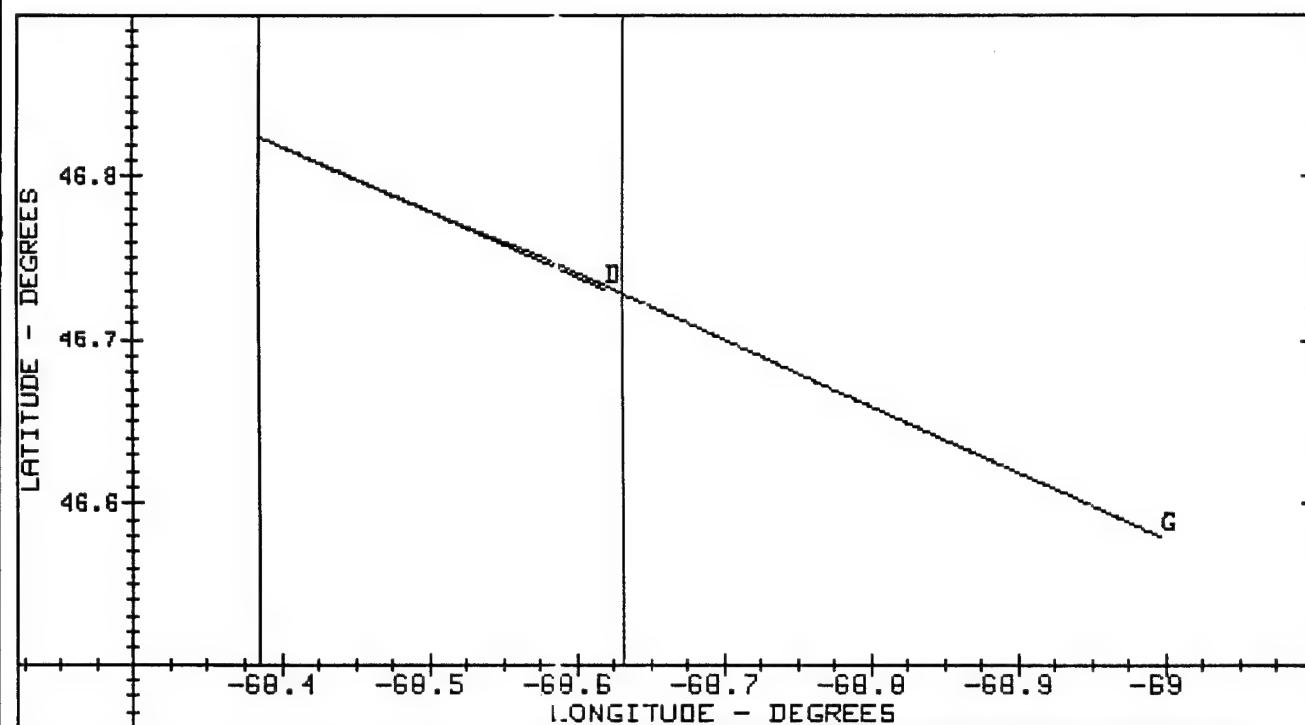
INS AIRCRAFT POSITION

DAY 179 TIME 1:45 PASS 21



GPS AIRCRAFT POSITION

DAY 179 TIME 1:45 PASS 21

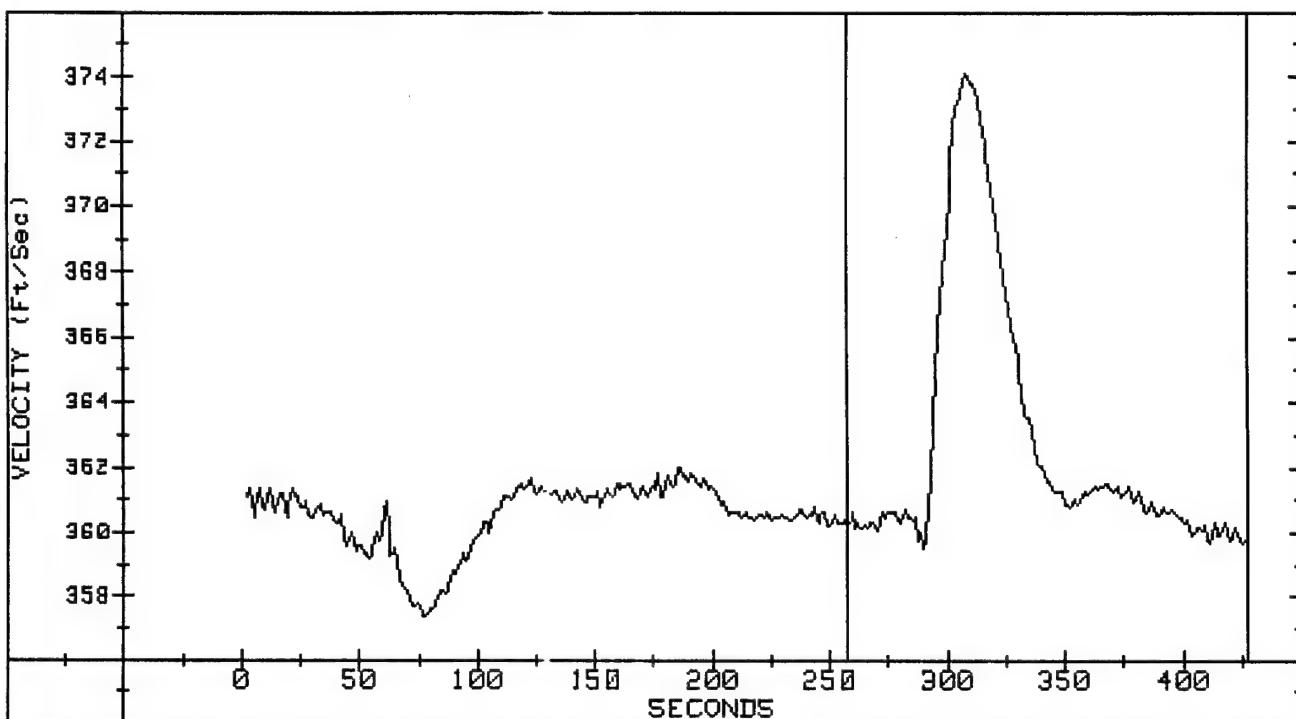


GPS Ve

DAY 179 TIME 1:45

PASS 21

m= 363, sd= 4.19507

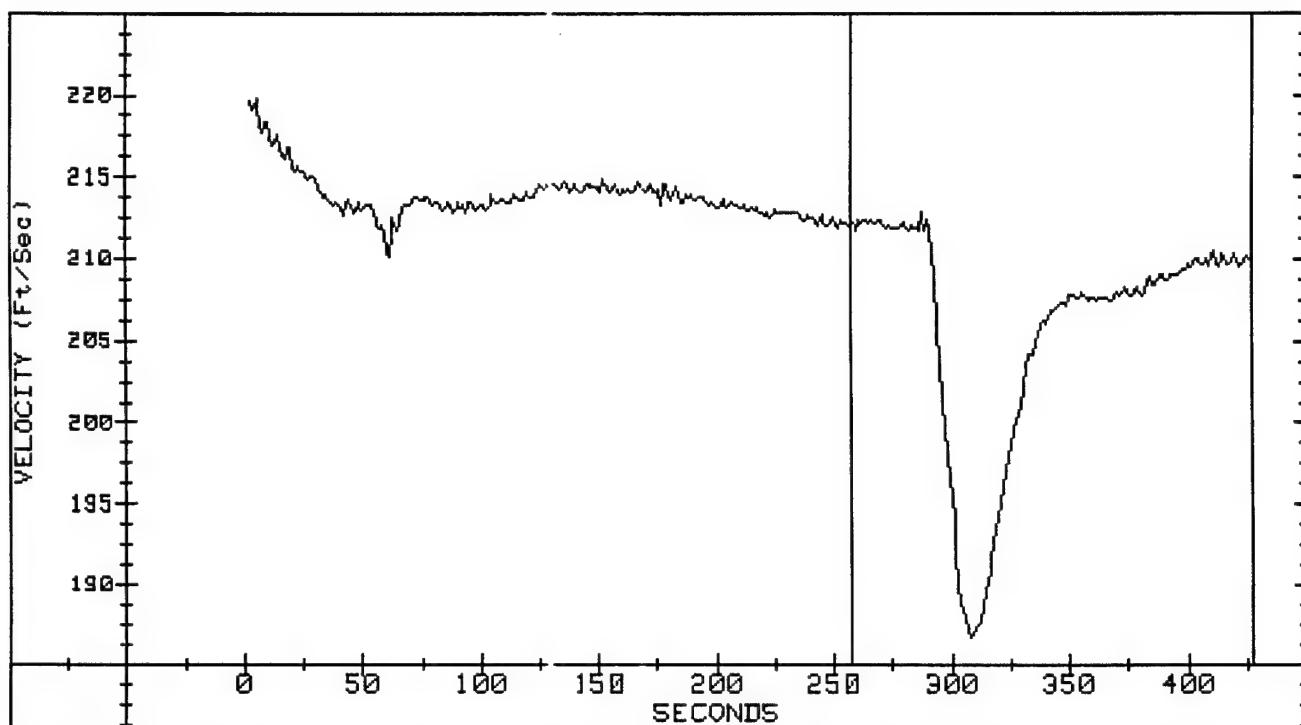


GPS Vn

DAY 179 TIME 1:45

PASS 21

m= 205.6, sd= 7.0105

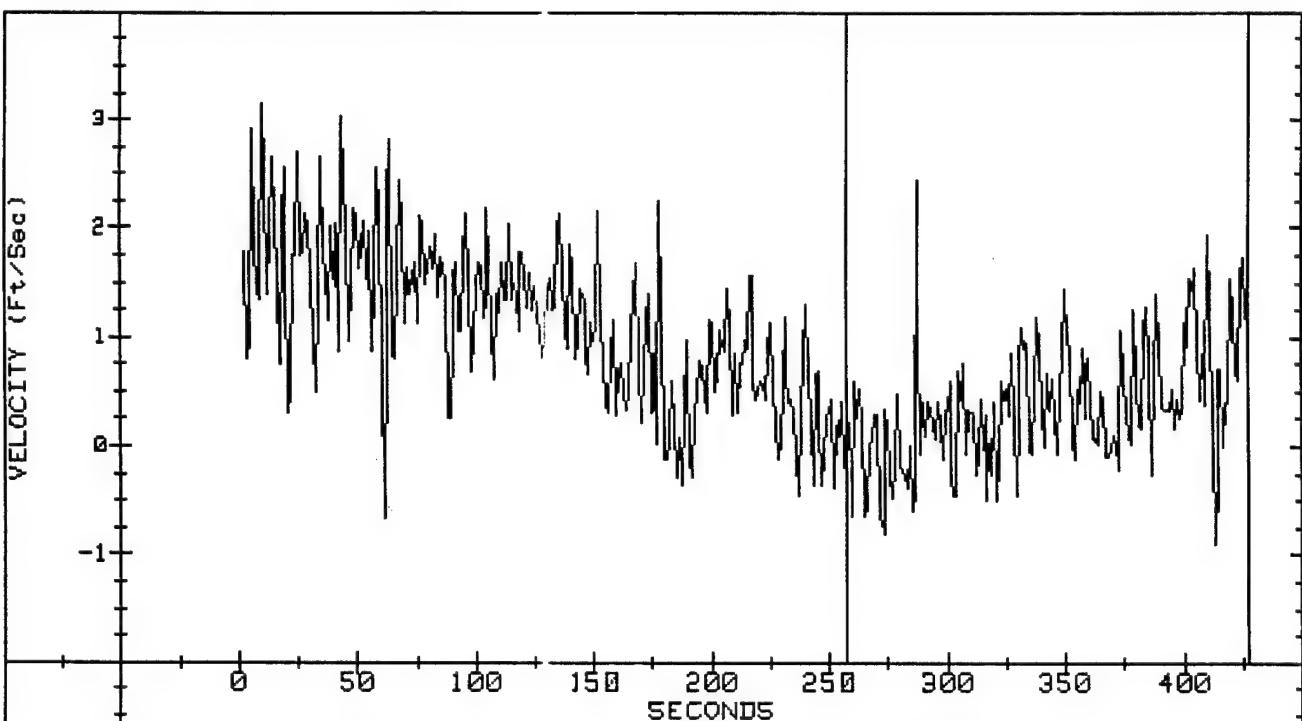


GPS Vv

DAY 179 TIME 1:45

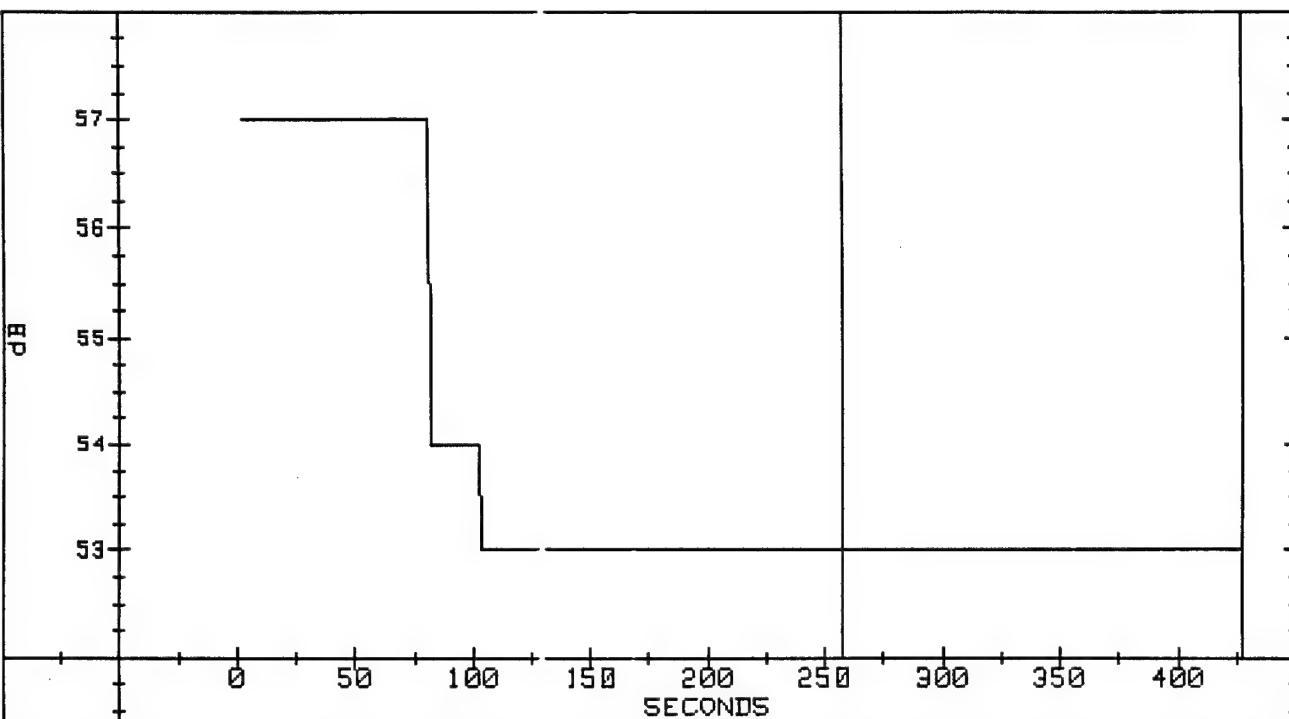
PASS 21

$m = .3898$, $sd = .56653$



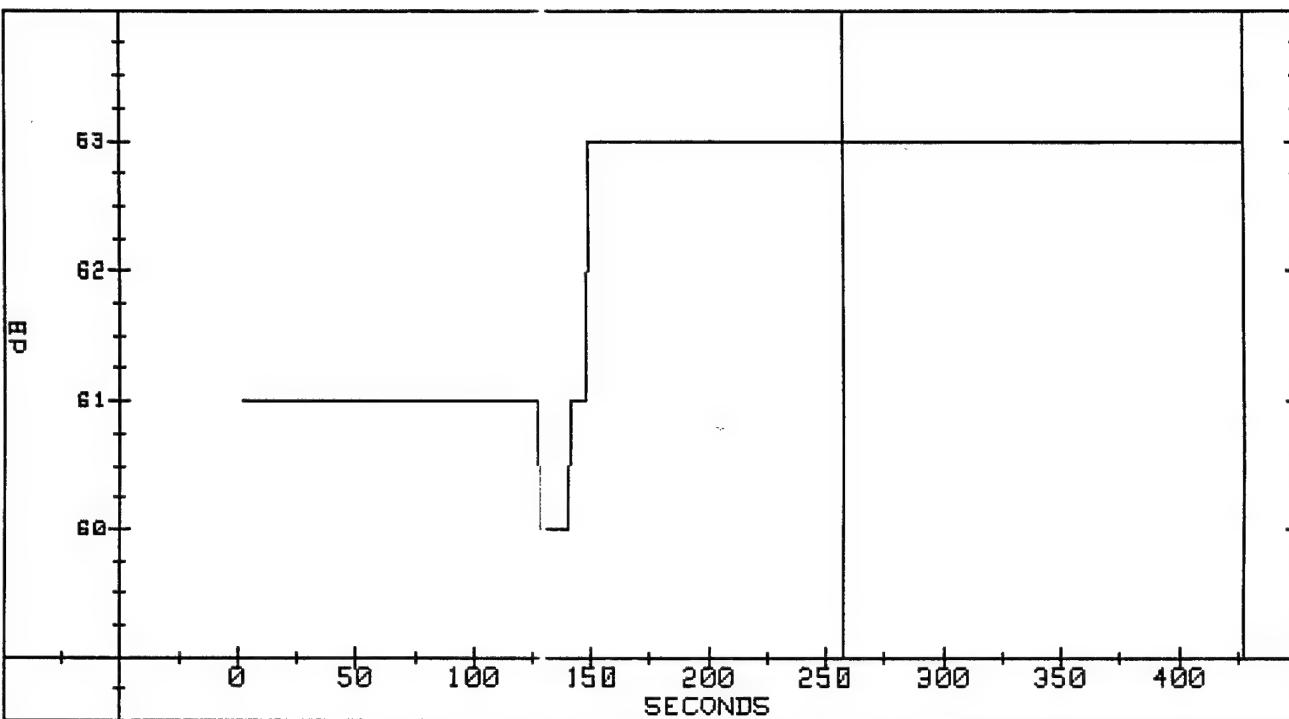
Ch1 RES Attenuation

DAY 179 TIME 1:45 PASS 21 m= 53, sd= 0



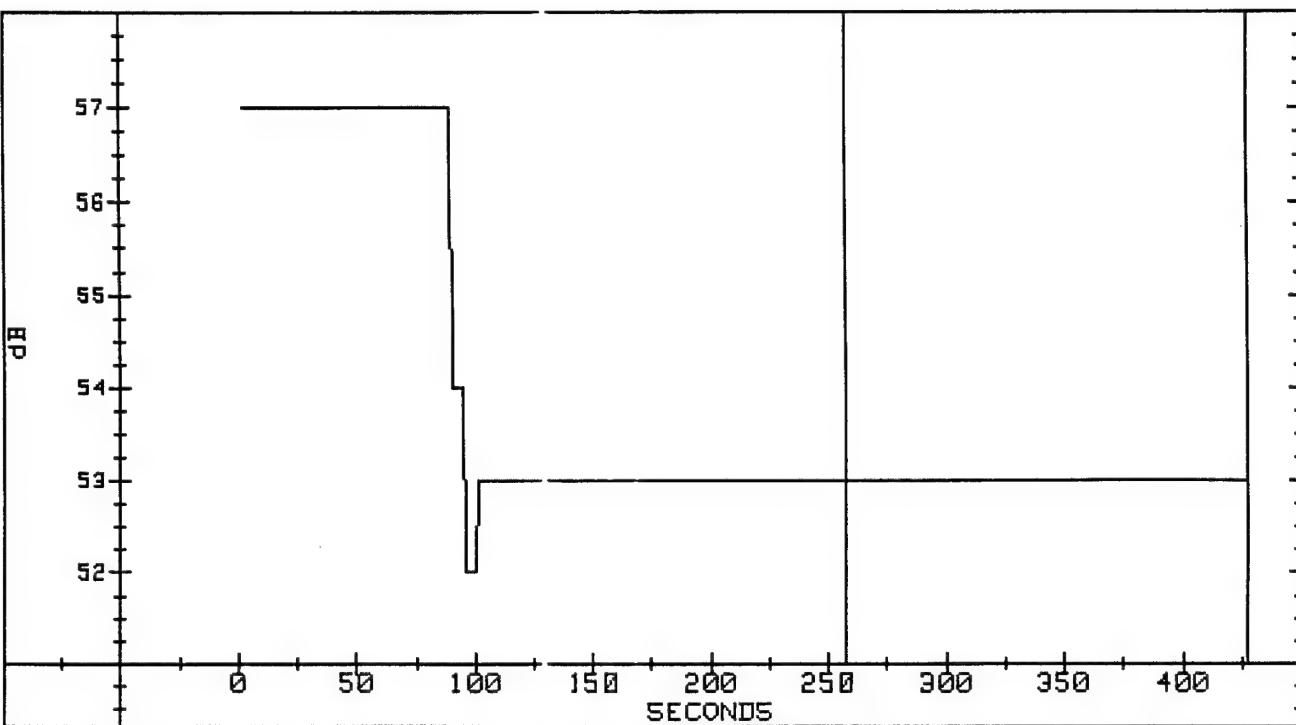
Ch2 RES Attenuation

DAY 179 TIME 1:45 PASS 21 m= 63, sd= 0



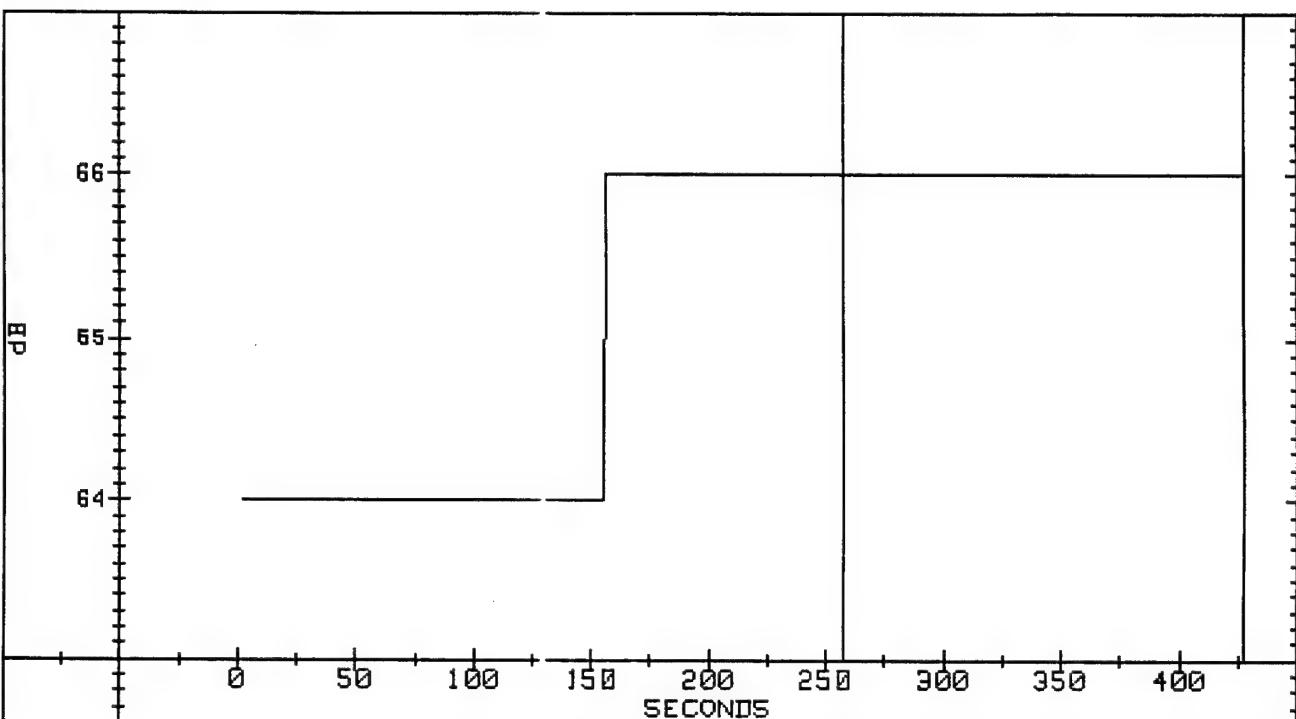
Ch3 RES Attenuation

DAY 179 TIME 1:45 PASS 21 m= 53, sd= 0



Ch4 RES Attenuation

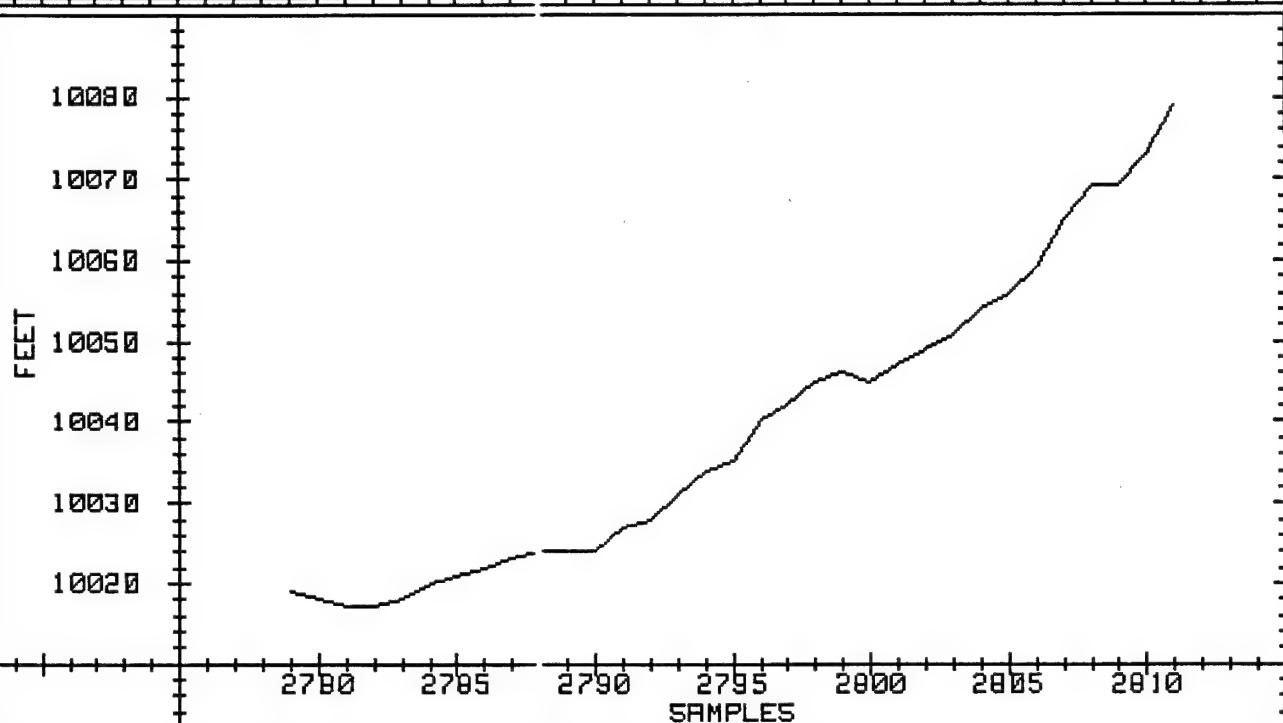
DAY 179 TIME 1:45 PASS 21 m= 66, sd= 0



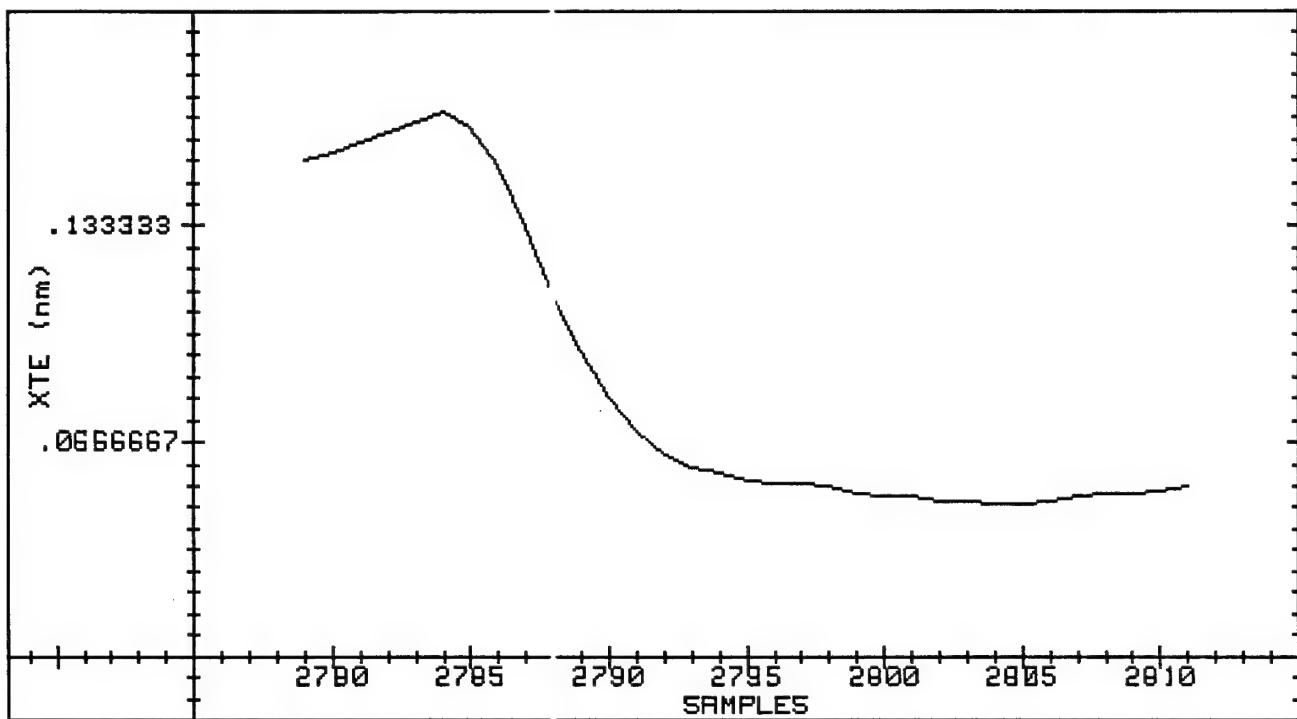
GPS ALTITUDE

MEAN= 10038.1 STANDARD DEVIATION= 18.3481
DATE: June 27, 1995 PASS 21

OFF
ON
BAR

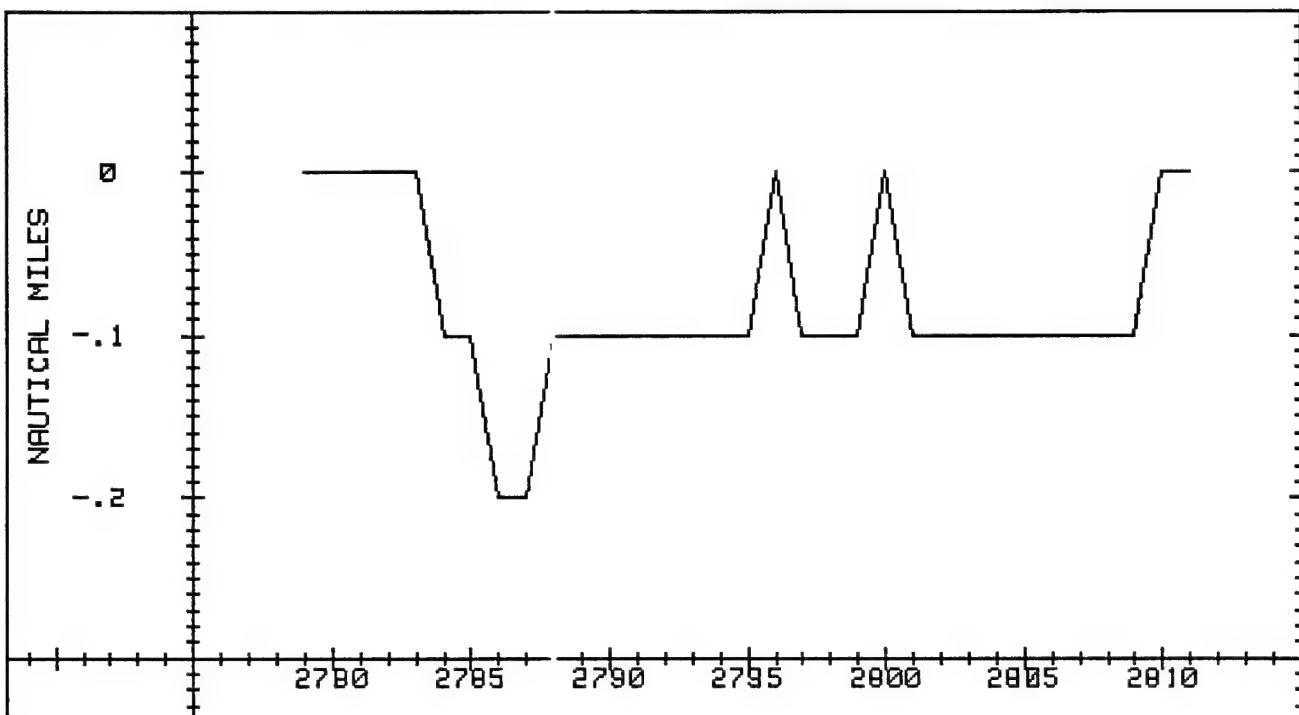


GPS Cross Track Error
MEAN= .0852727 STANDARD DEVIATION= .0460959
DATE: June 27, 1995 PASS 21

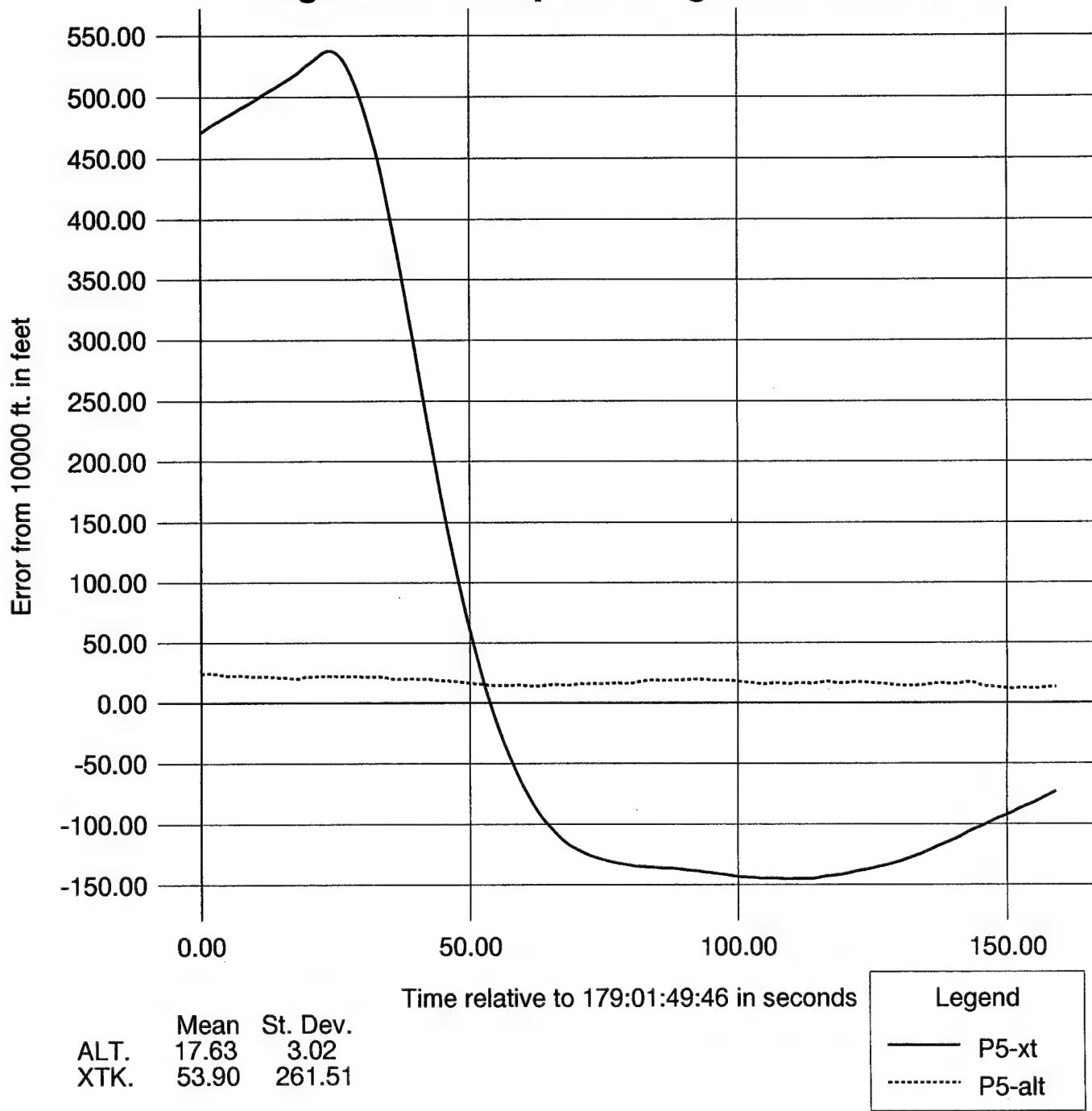


INS CROSS TRACK ERROR

MEAN= -.0767879 STANDARD DEVIATION= .0536571
DATE: June 27, 1995 PASS 21



Portage, ME - June 27, 1995 - Pass 21 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero



28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 35
Mission: Presque Isle DAY 3

Time: 179:02:01:48
Pass 22
Req.# 18

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9889 ft s.d. =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	240.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	51.0	61.0	49.0	66.0
End Sq:	90.0°	RMS Video (%FS)	27.9	15.9	26.1	15.7

WAYPOINTS

Line_up:	Latitude	Longitude	Main Target: IE
	N 46:50.30	W 68:05.61	Mocomp Point:
Start:	N 46:44.33	W 68:20.76	Lat: N 46:44.12
End:	N 46:39.33	W 68:33.35	Long: W 68:28.98
From:	N 52:42.59	W 44:21.25	Tgt Trk: 0.0 Tgt Vel: 0.0
To:	N 36:47.44	W 86:28.63	Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 255.1 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTL1U2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -2.6 fps (s.d.= 11.2)
Ave Fil Vel -> .8 fps (s.d.= 10.7)

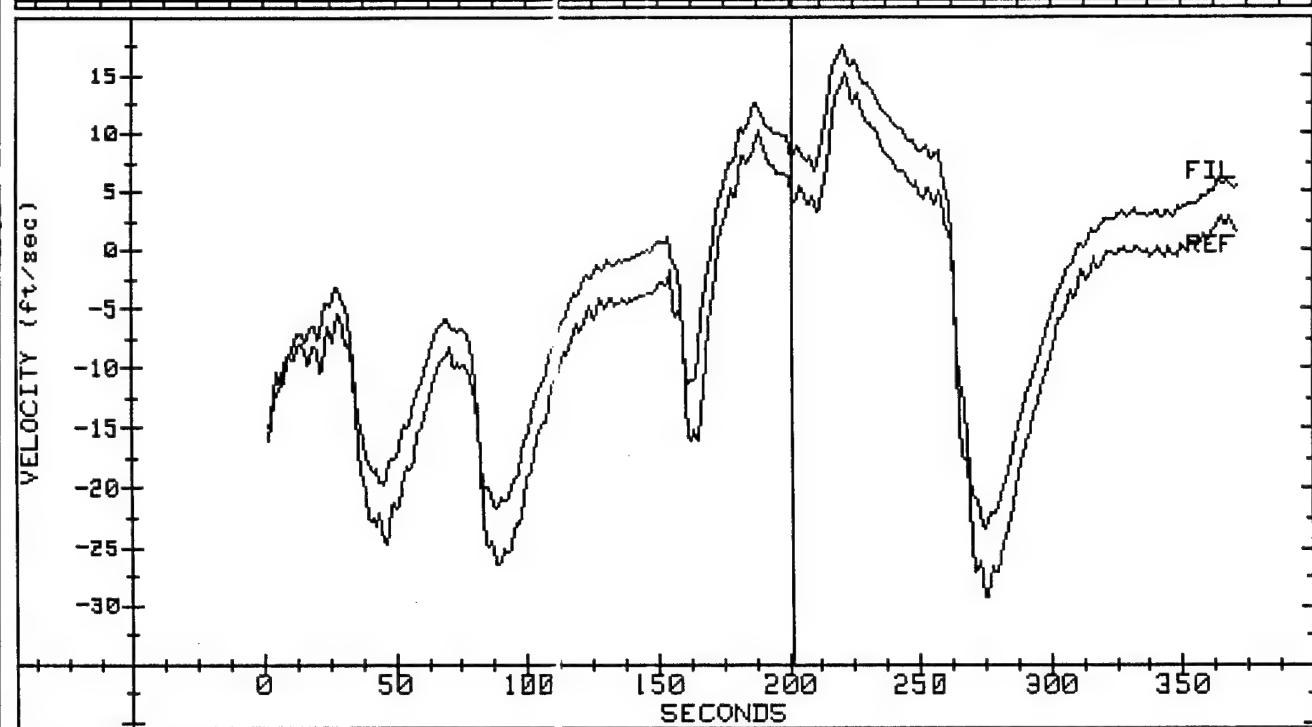
NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 2697 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 3902 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 39.4			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 02:01:48
Y: 1867.0	L: 63.8 dB	End: 02:04:22
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1315361 0014.221h	Alt: 0 ft (GPS)
End: 1341200 0014.710h	Lat: N 0:00: 0
	Lon: E 0:00: 0

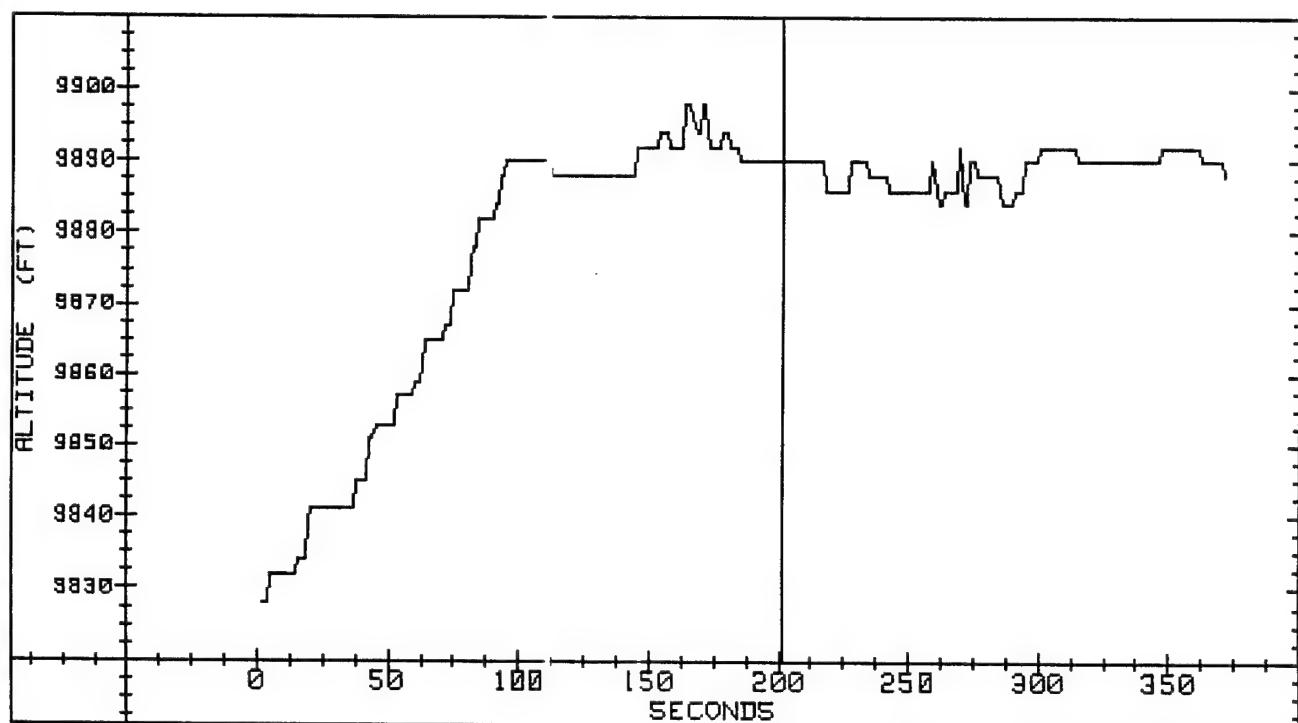
FILTERED vs. REF. VELOCITY
DAY 179 TIME 1:58 PASS 22

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GPS



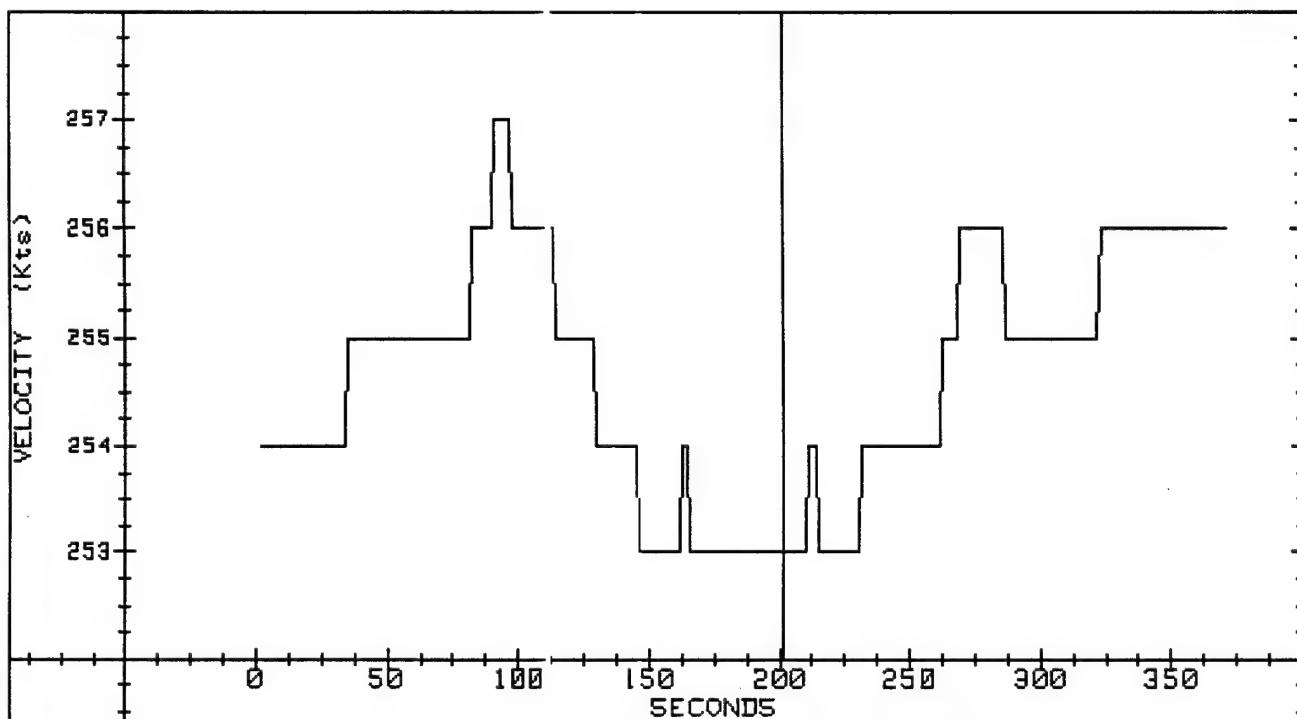
HARO ALTITUDE

DAY 179 TIME 1:58 PASS 22 m- 9889, sd- 2.4243



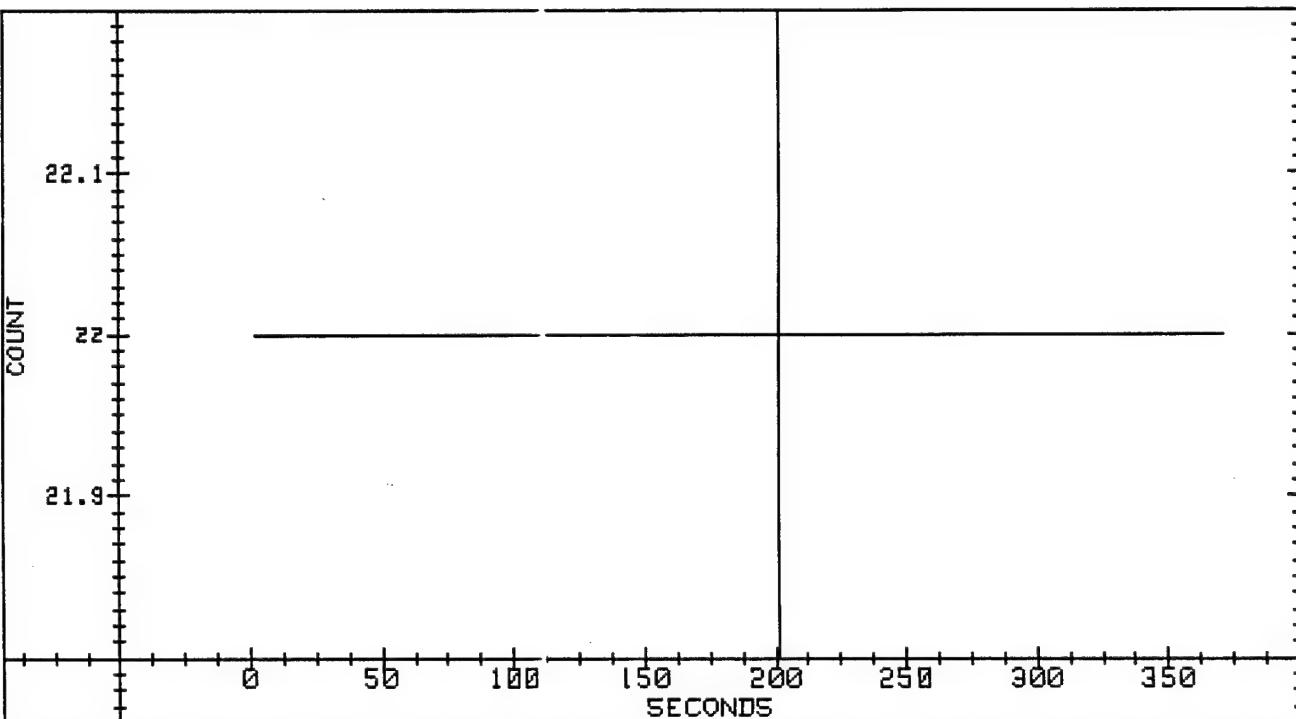
INS GROUND SPEED

DRY 179 TIME 1:58 PASS 22 m= 255.1, sd= .995432



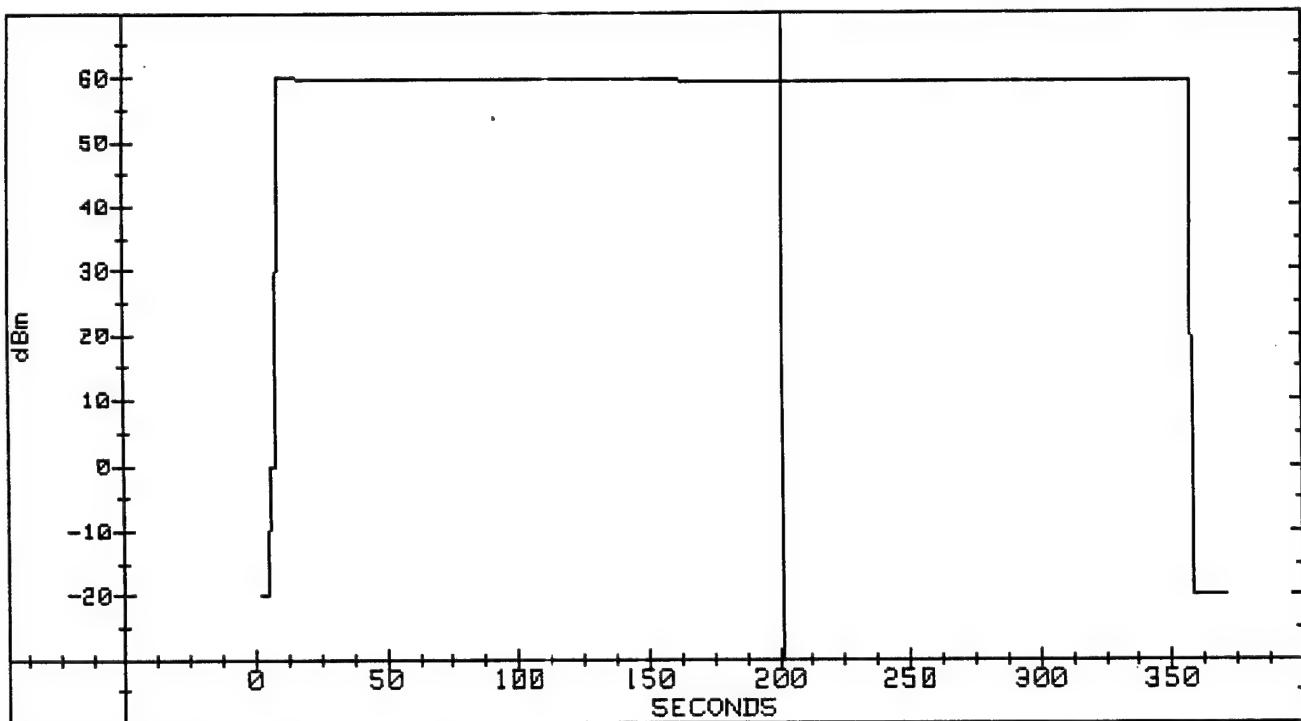
PASS NUMBER

DAY 179 TIME 1:58 PASS 22 m= 22, sd= 0



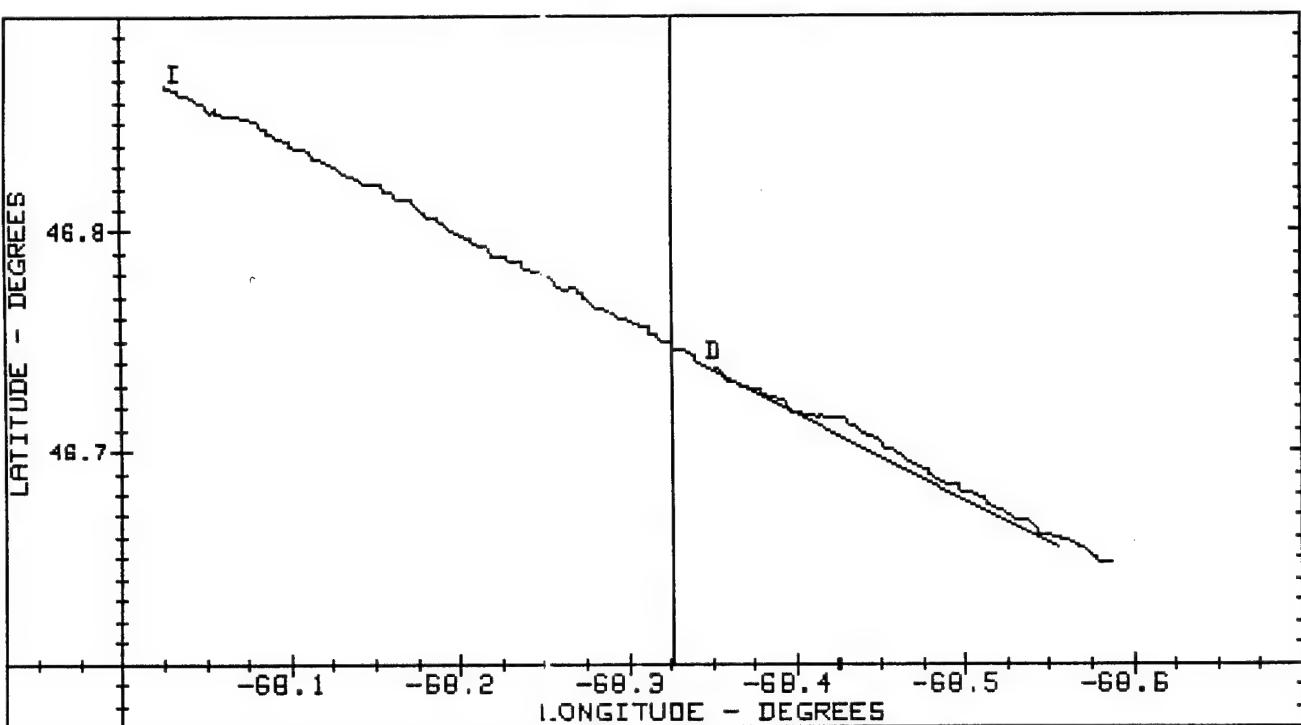
P Band Power

DRY 179 TIME 1:58 PASS 22 m- 52.21, sd- 22.7530



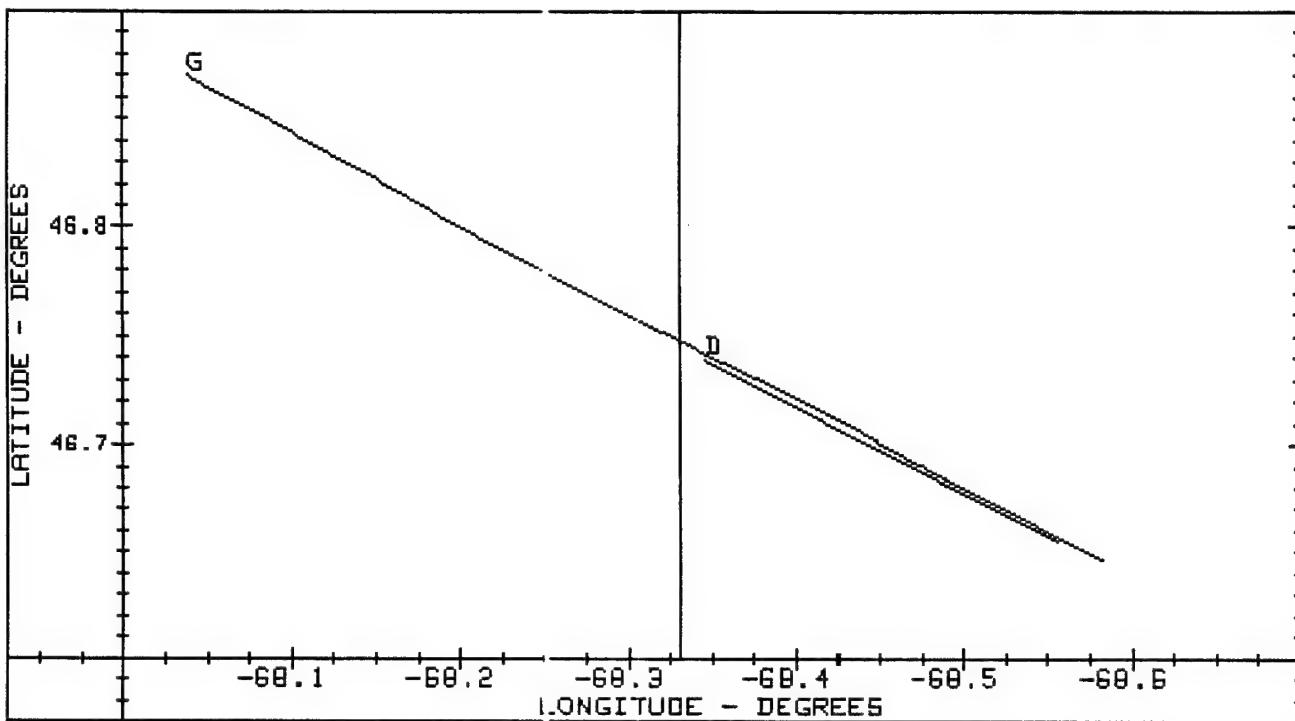
INS AIRCRAFT POSITION

DAY 179 TIME 1:58 PASS 22



GPS AIRCRAFT POSITION

DAY 179 TIME 1:58 PASS 22

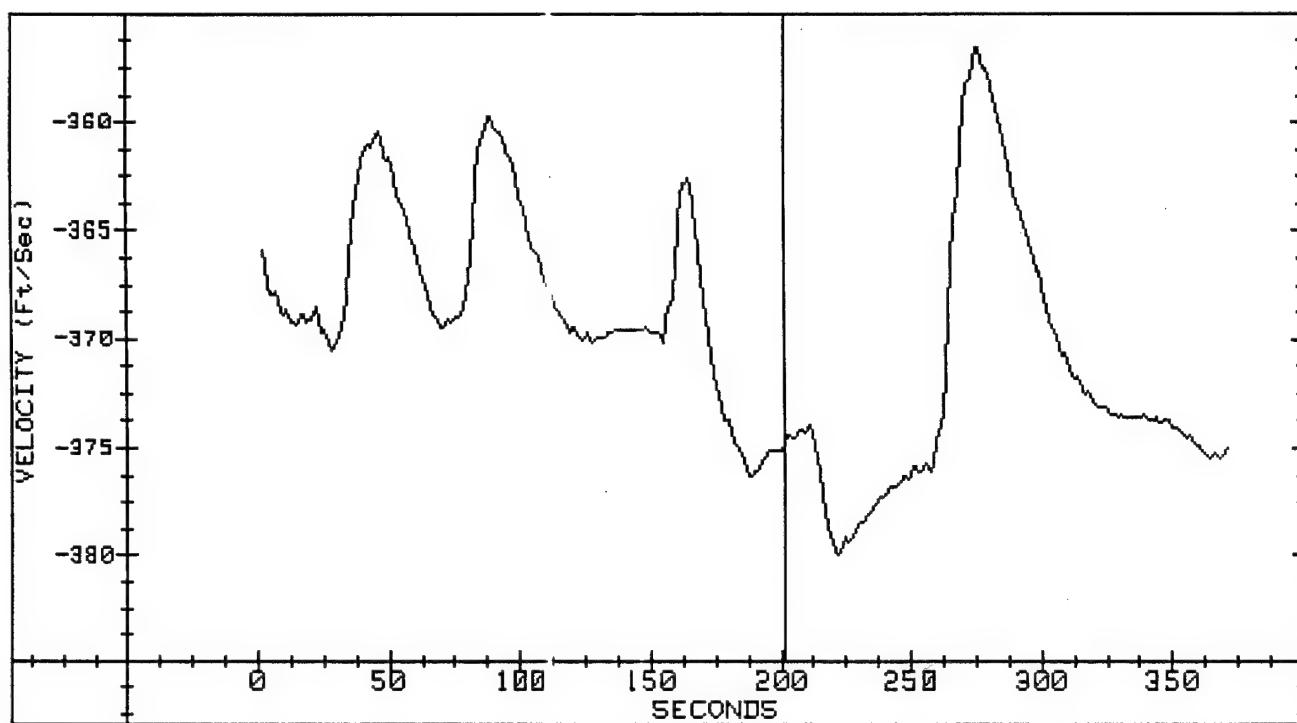


GPS Ve

DAY 179 TIME 1:58

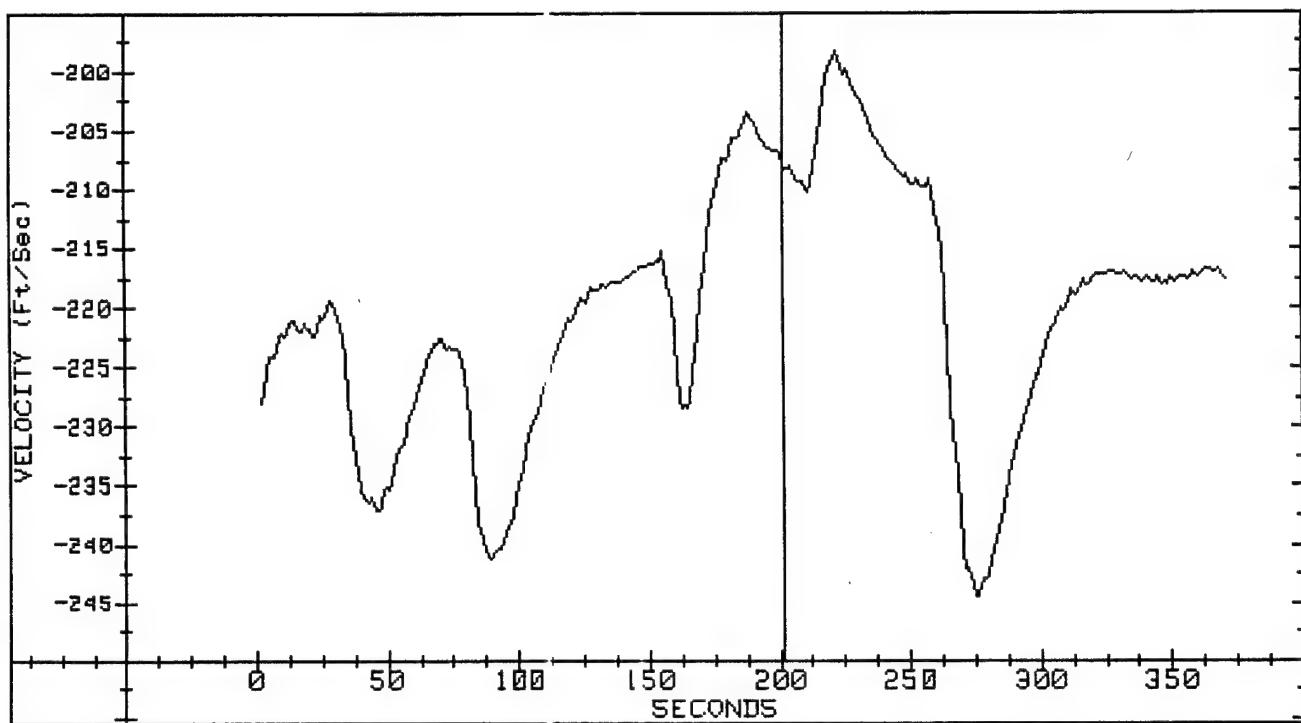
PRSS 22

m- -371.7, sd- 6.2548



GPS Vn

DAY 179 TIME 1:58 PASS 22 m= -210.4, sd= 11.5367

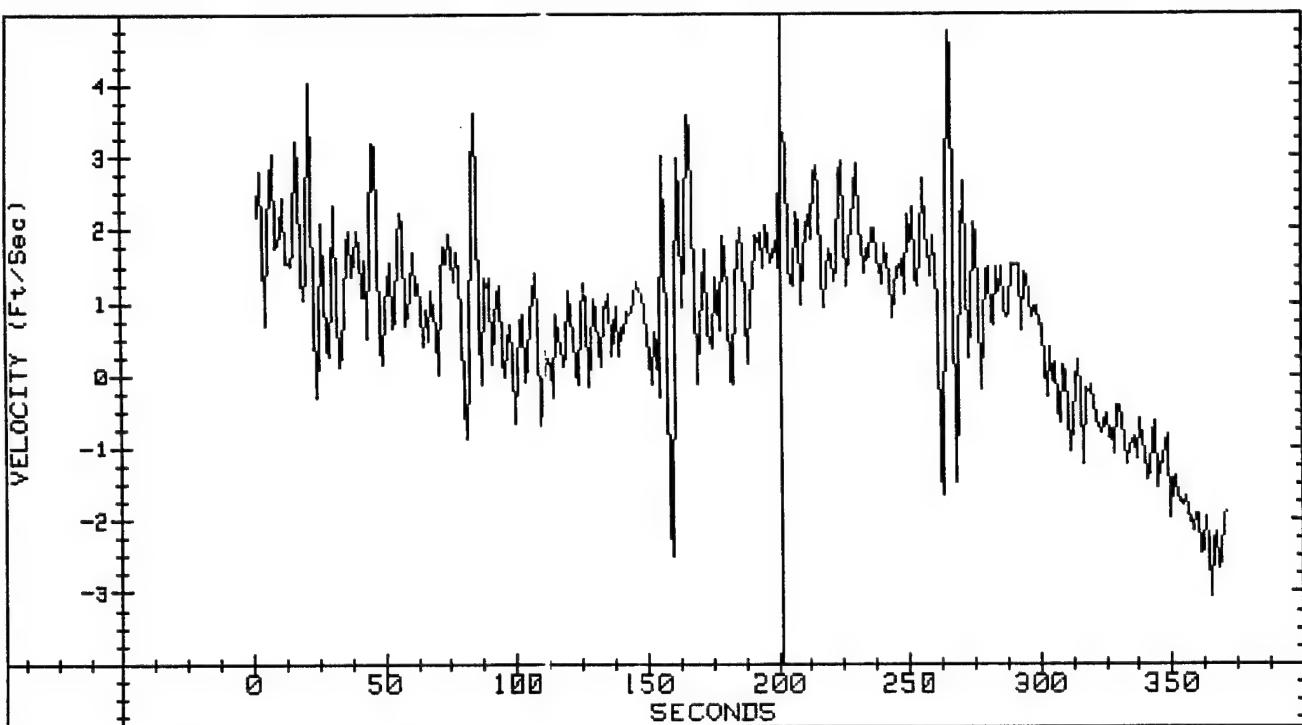


GPS Vv

DAY 179 TIME 1:58

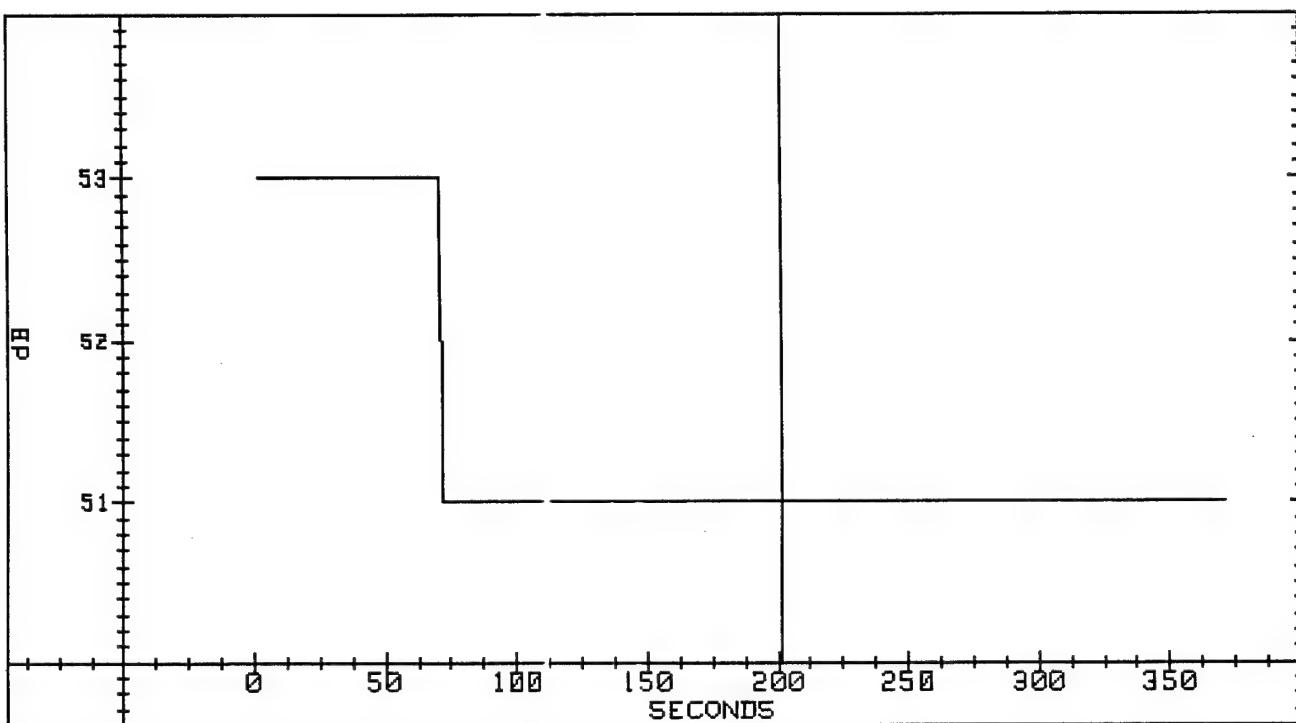
PASS 22

$m = .2944$, $sd = 1.5232$



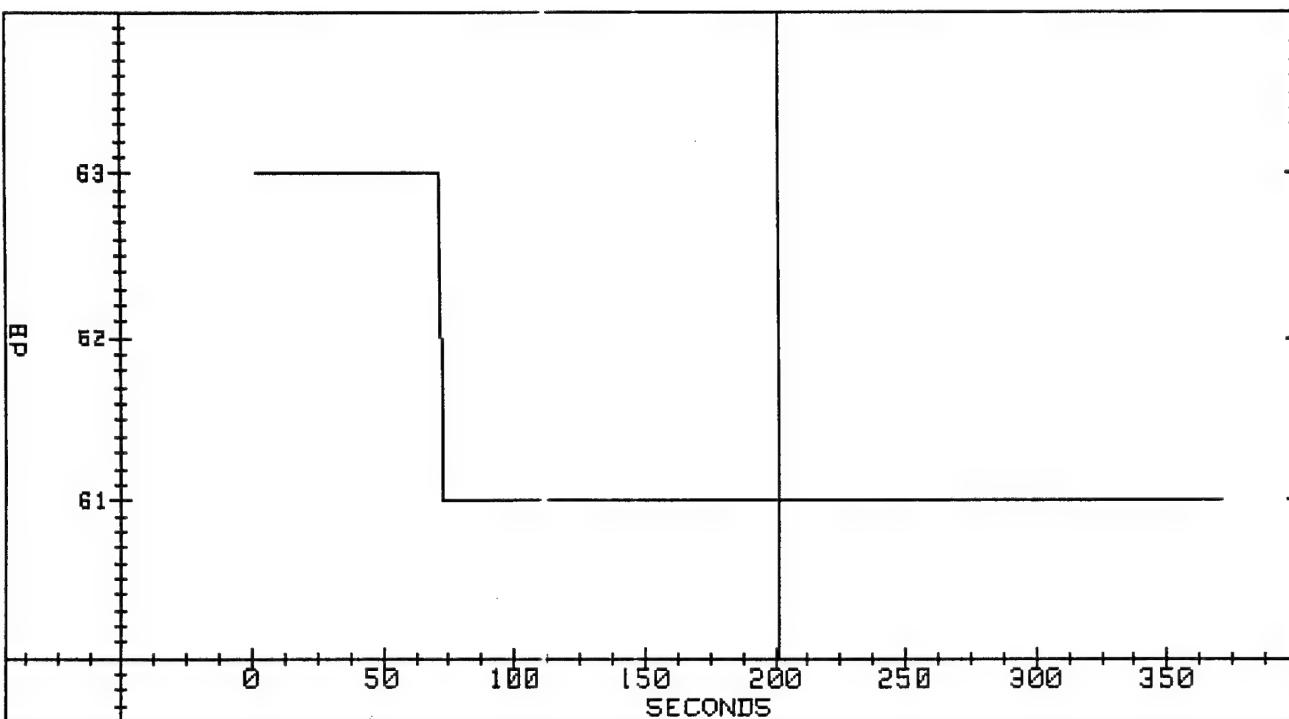
Ch1 RES Attenuation

DAY 179 TIME 1:58 PASS 22 m= 51, sd= 0



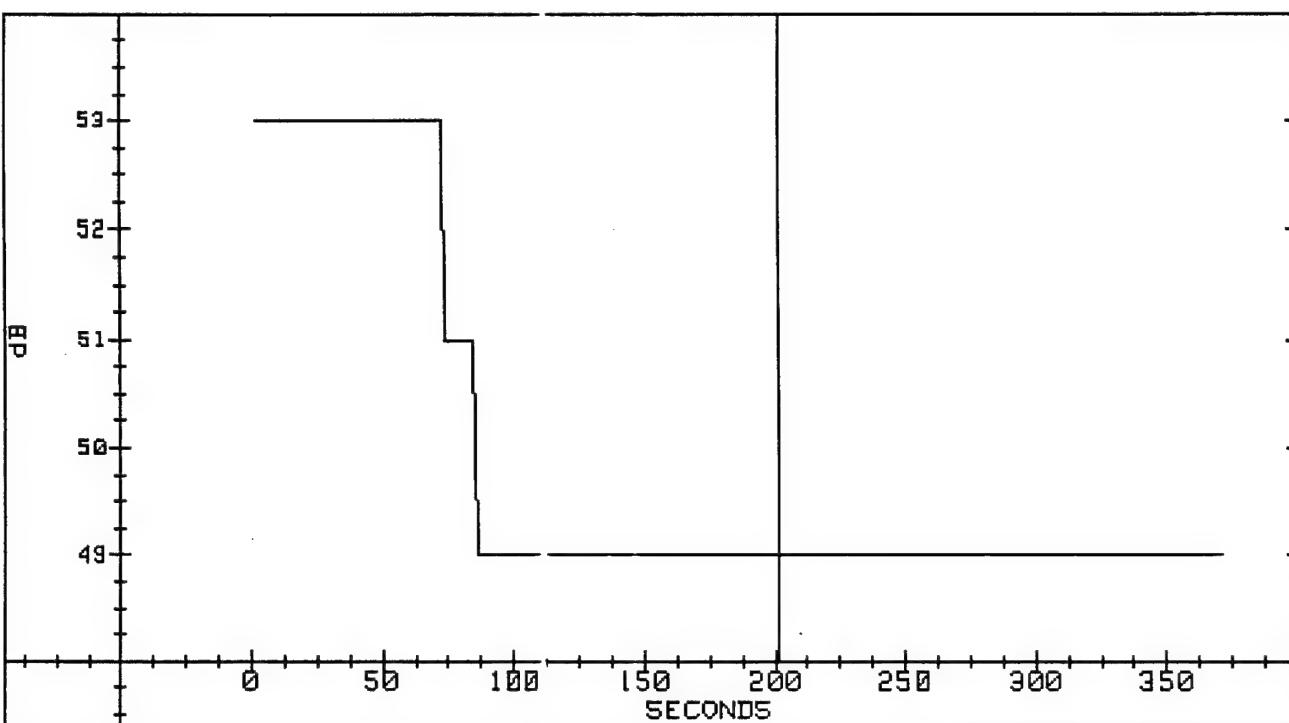
Ch2 RES Attenuation

DAY 179 TIME 1:58 PASS 22 m= 61, sd= 0



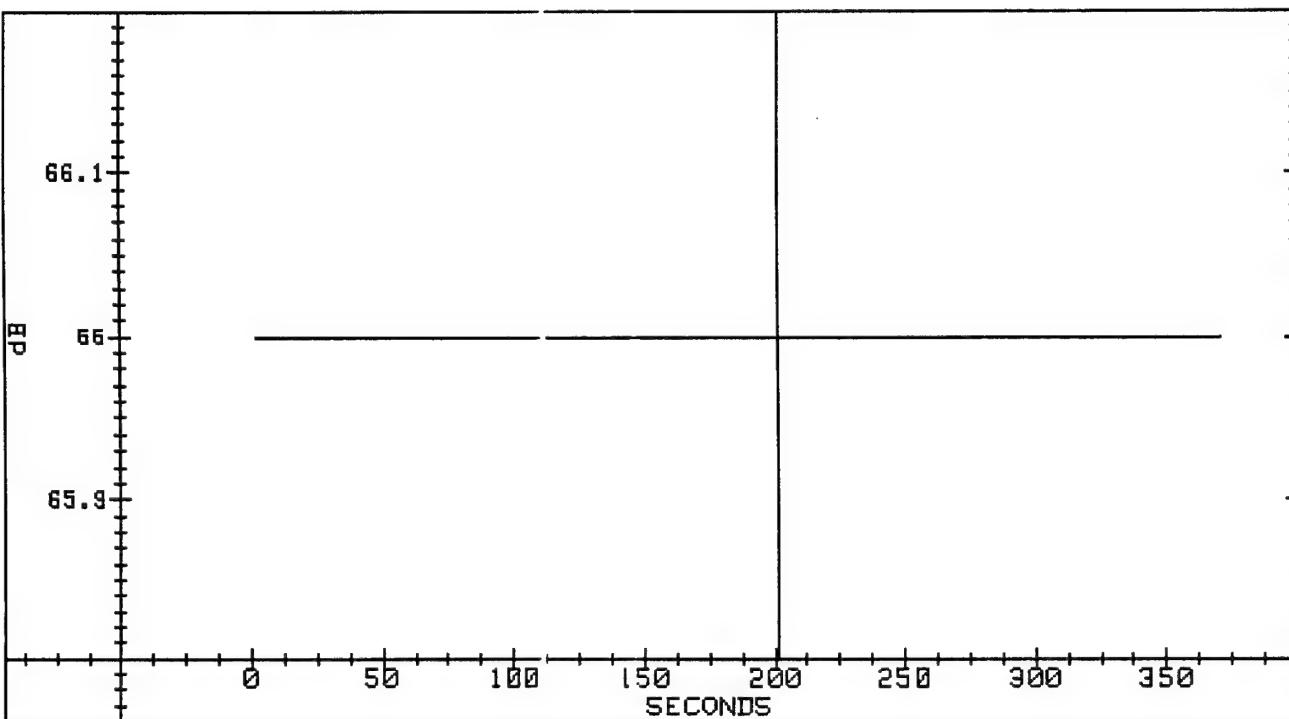
Ch3 RES Attenuation

DAY 179 TIME 1:58 PASS 22 m= 49, sd= 0



Ch4 RES Attenuation

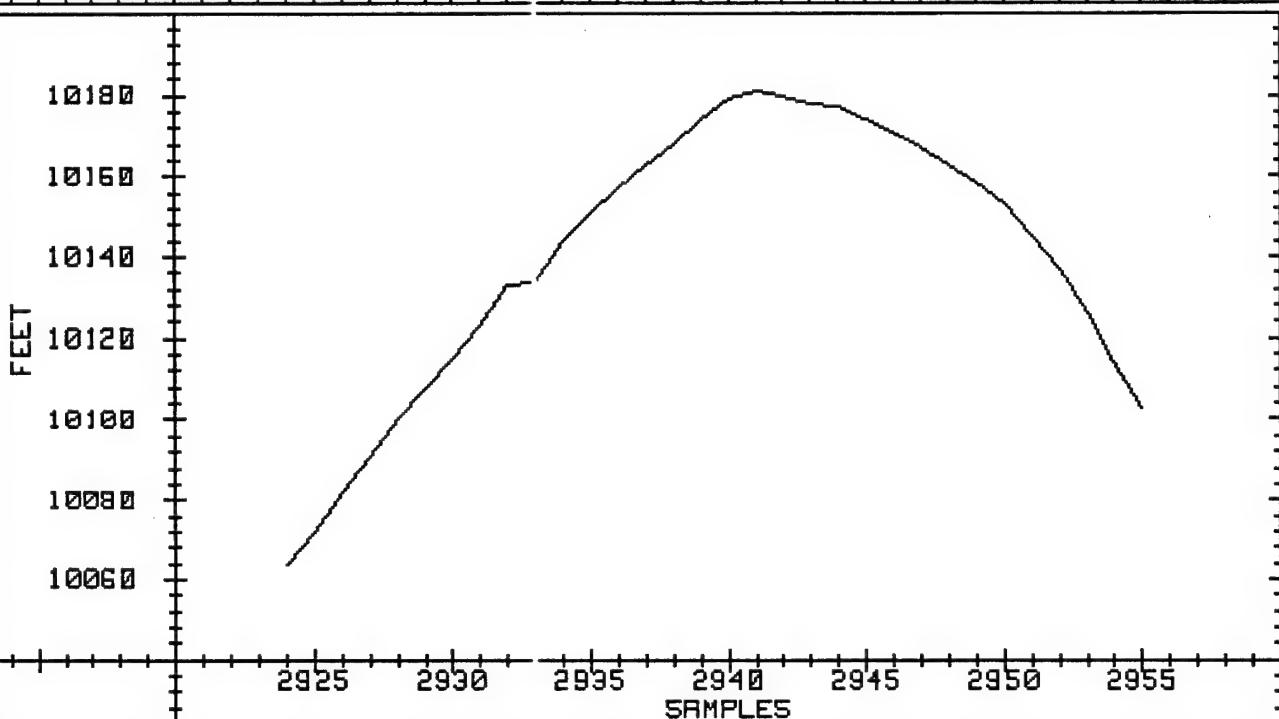
DAY 179 TIME 1:50 PASS 22 m= 66, sd= 0



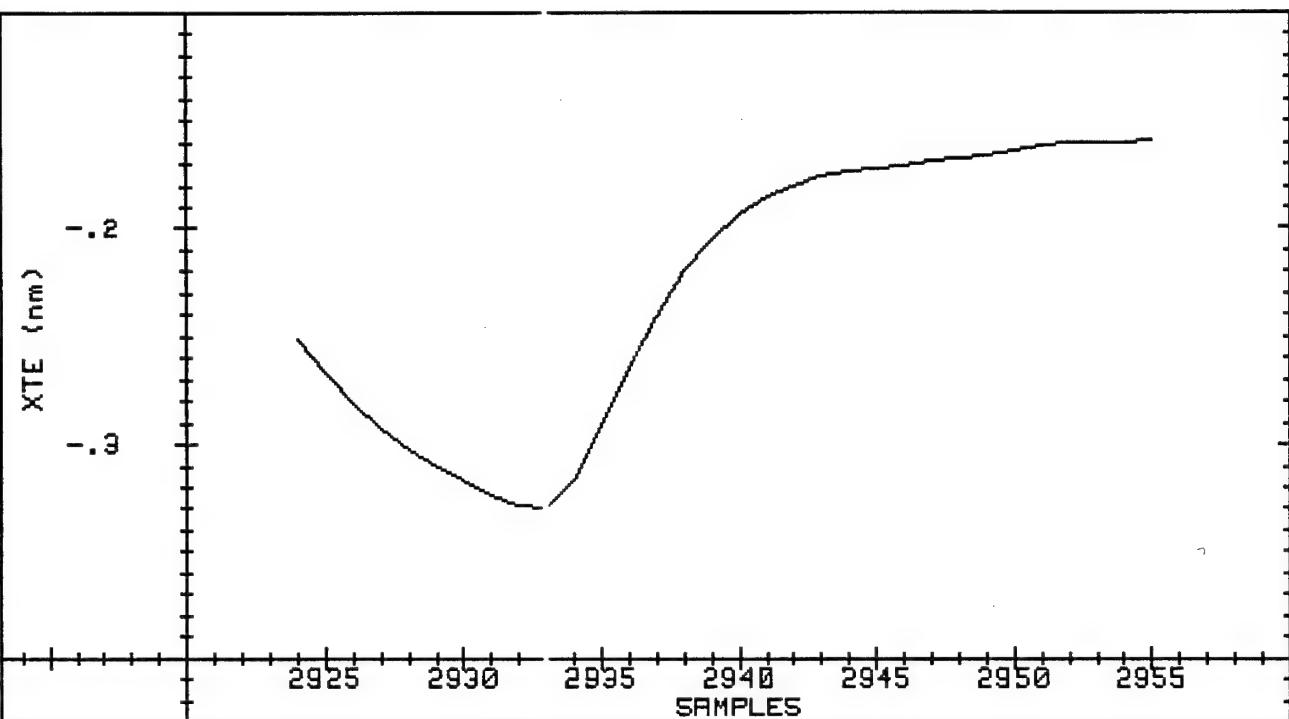
GPS ALTITUDE

MEAN= 10140.2 STANDARD DEVIATION= 33.7455
DATE: June 27, 1995 PASS 22

OFF
ON
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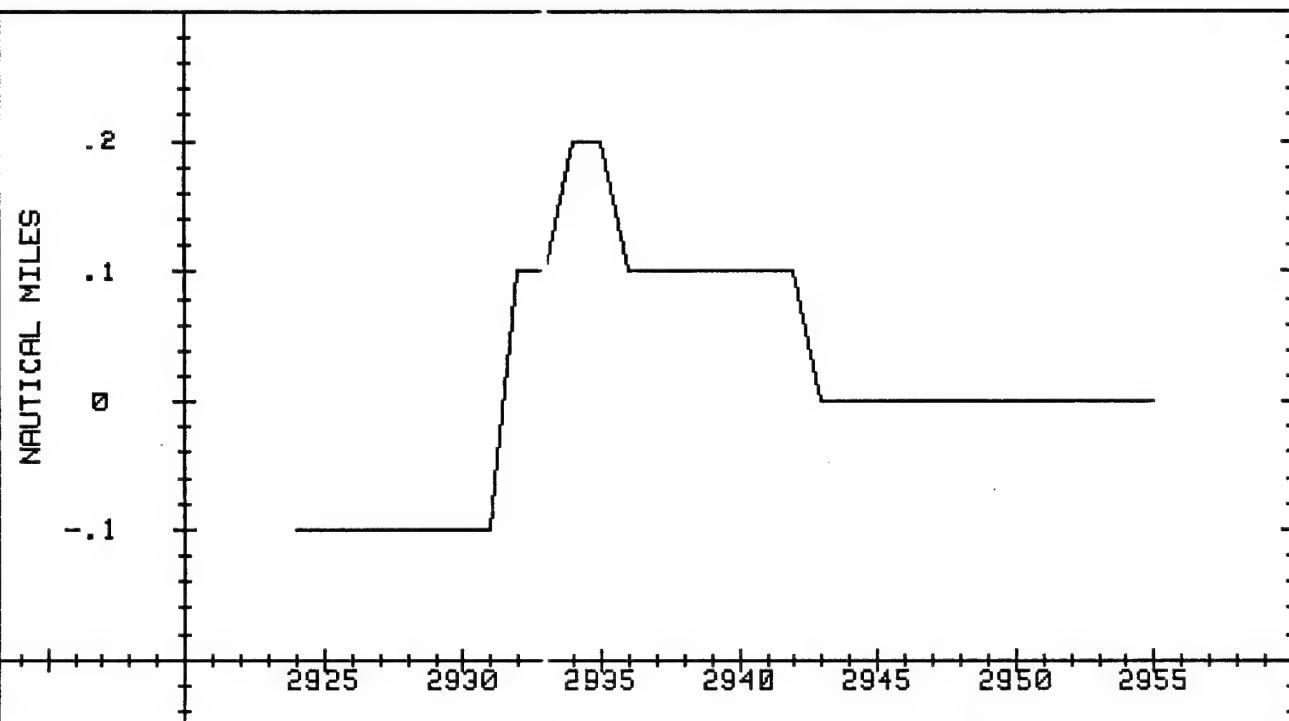


GPS Cross Track Error
MEAN= -.226969 STANDARD DEVIATION= .0631978
DATE: June 27, 1995 PASS 22

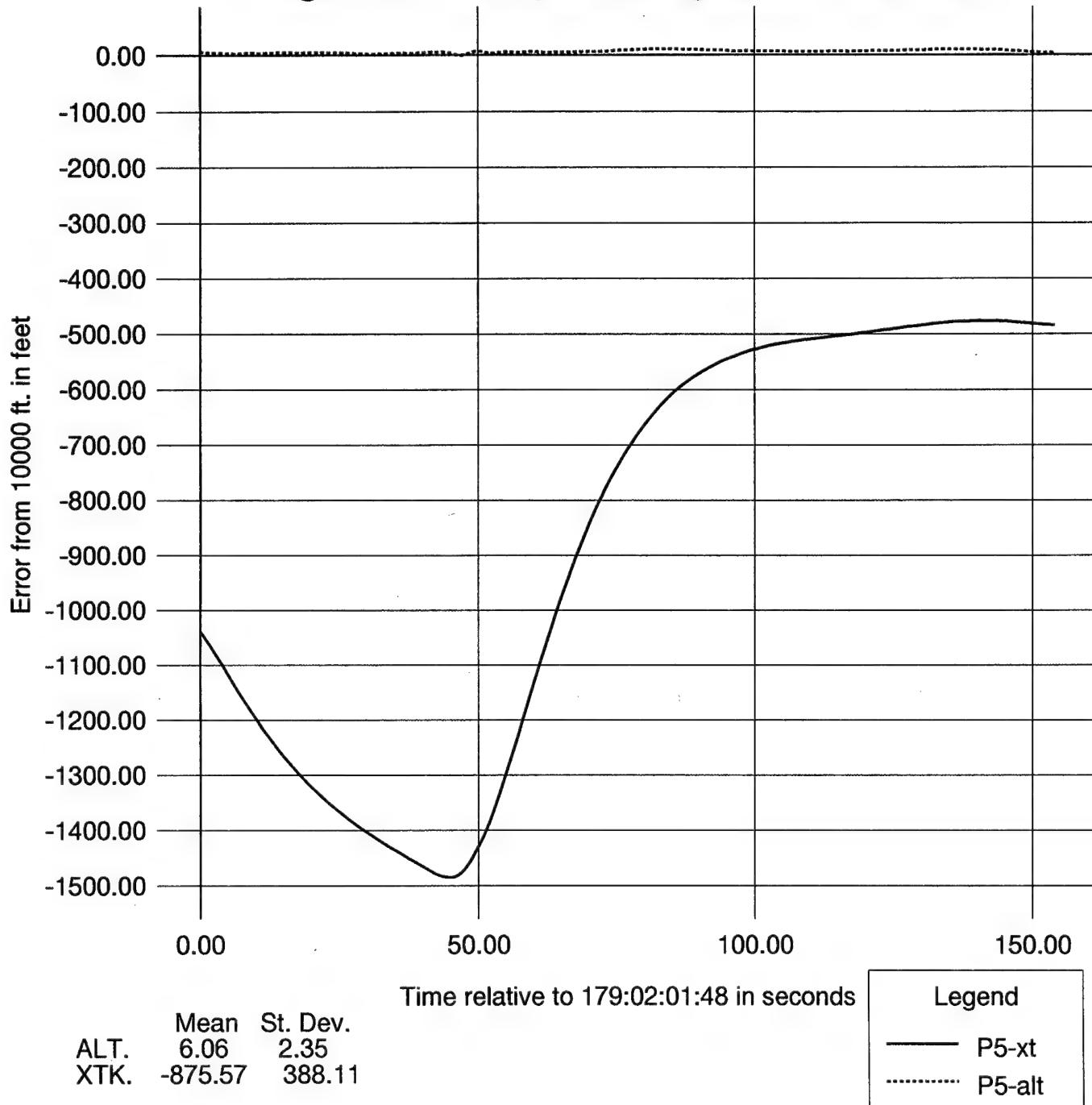


INS CROSS TRACK ERROR

MEAN= .015625 STANDARD DEVIATION= .0869963
DATE: June 27, 1995 PASS 22



Portage, ME - June 27, 1995 - Pass 22 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero



28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 31
Mission: Presque Isle DAY 3

Time: 179:02:16:28
Pass 23
Req. # 16

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	10000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	9903 ft s.d. =	2 Swath Ctr Ang:	30.0°	30.0°	30.0°	30.0°
Slt. rng:	18460 ft	Tgt Dep Ang:	30.0°	30.0°	30.0°	30.0°
Look:	Right	St rng (ft):	16922	16922	16922	16922
Depr Ang:	25.0°	Near Rng Dep:	35.8°	35.8°	35.8°	35.8°
Des. trk:	300.0°	Far Rng Dep:	17.4°	17.4°	17.4°	17.4°
Start Sq:	90.0°	Atten (dB):	55.0	60.0	54.0	65.0
End Sq:	90.0°	RMS Video (%FS)	23.3	15.8	21.9	12.4

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:33.32	W 68:09.55	Main Target: IE
Start:	N 46:39.35	W 68:24.60	Mocomp Point:
End:	N 46:44.34	W 68:37.19	Lat: N 46:44.12
From:	N 36:47.45	W 50:29.32	Long: W 68:28.98
To:	N 52:42.60	W 92:36.70	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 247.4 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 5.3 fps (s.d.= 9.6)
Ave Fil Vel -> 8.9 fps (s.d.= 9.0)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 3918 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 5121 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 40.8			

Vel Bias CAL Atten
X: 2079.0 X: 63.8 dB
Y: 1867.0 L: 63.8 dB
Z: 17142.0 C: 63.8 dB

LINE Map Time (UCT)
Start: 02:16:28
End: 02:19:09

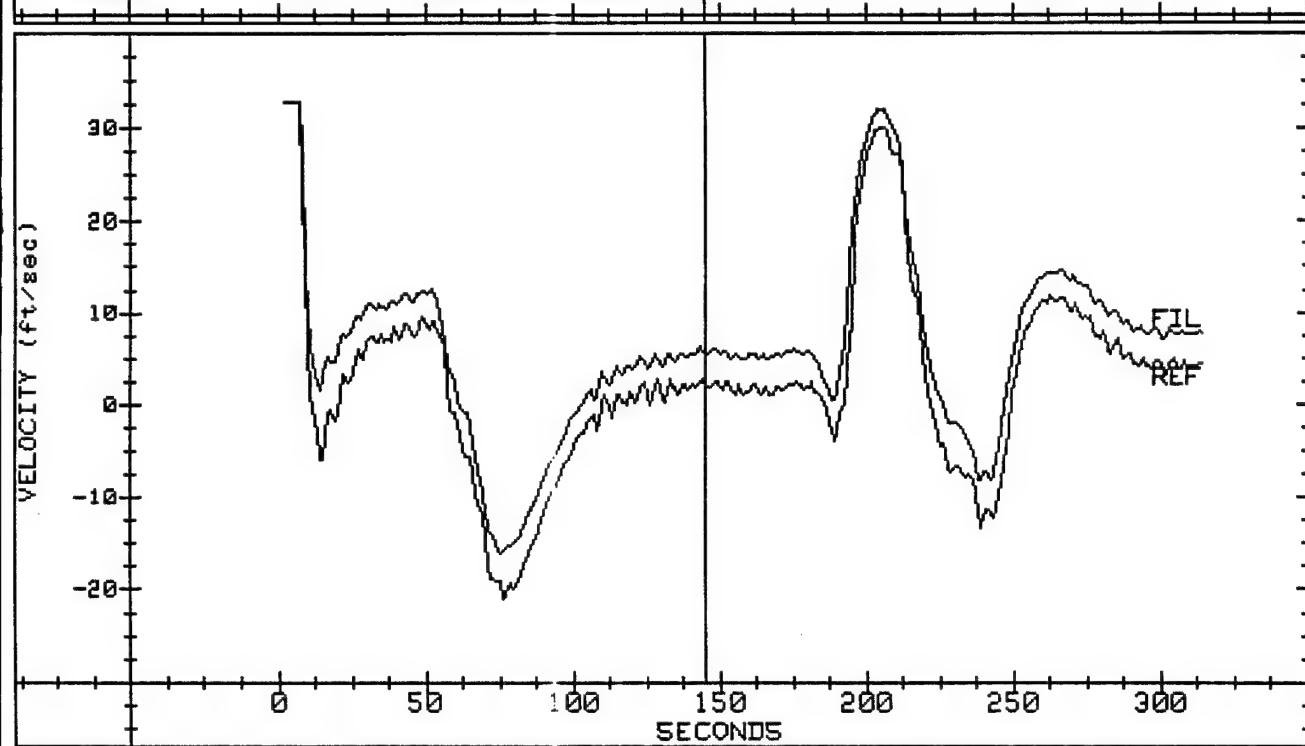
Mocomp Counters

Start: 1366879 0014DB5Fh
End: 1393891 001544E3h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

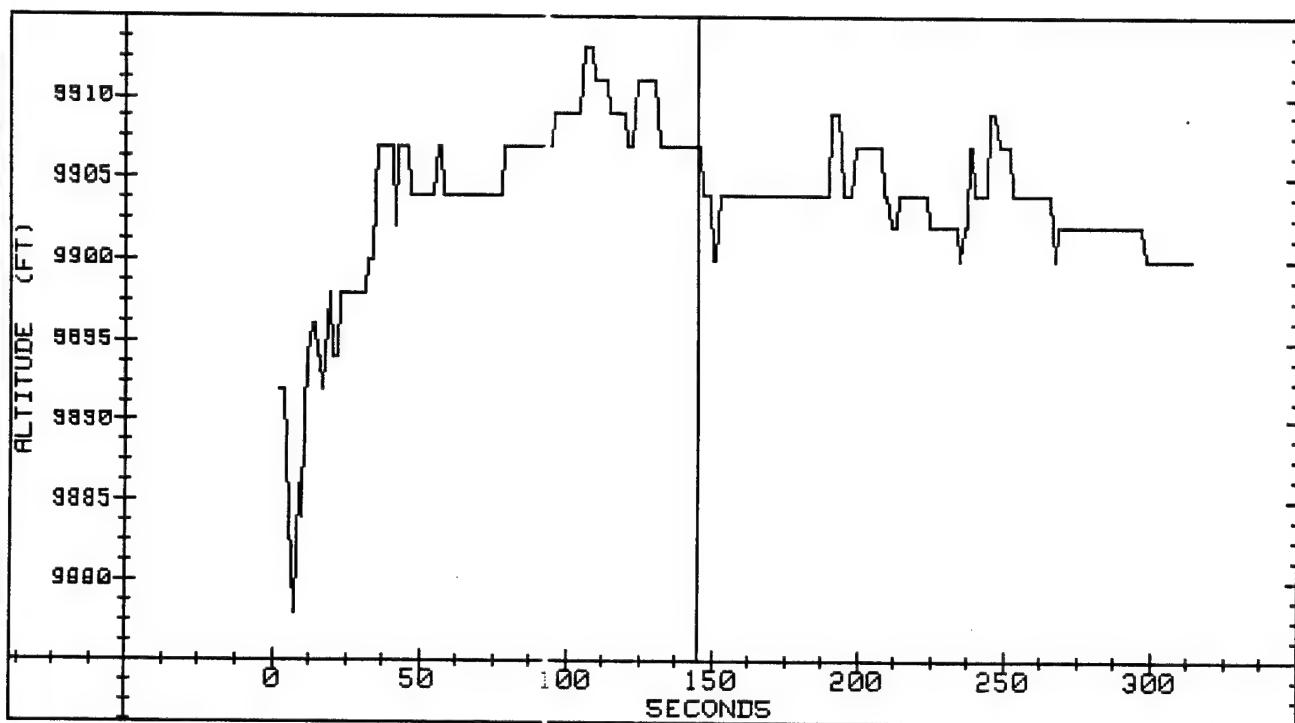
FILTERED vs. REF. VELOCITY
DAY 179 TIME 2:13 PASS 23

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GPS



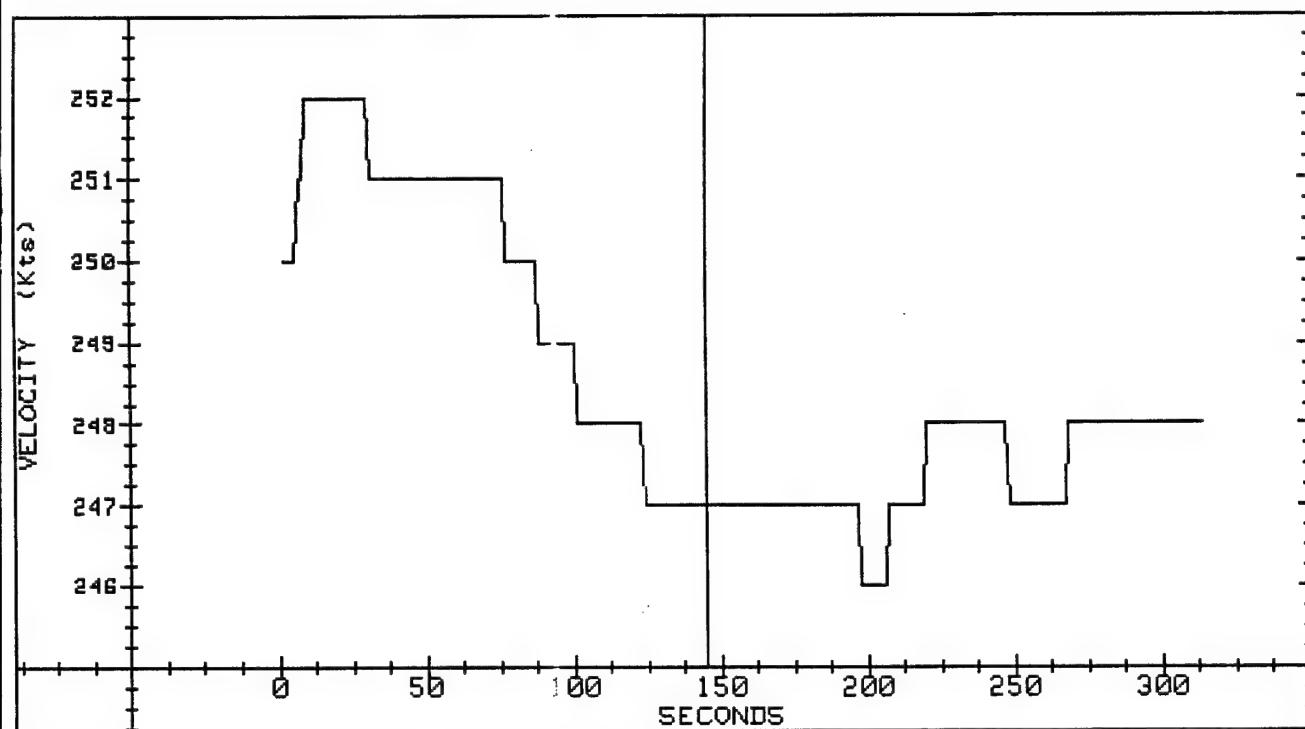
BARO ALTITUDE

DAY 179 TIME 2:13 PASS 23 m- 9903, sd- 2.16088



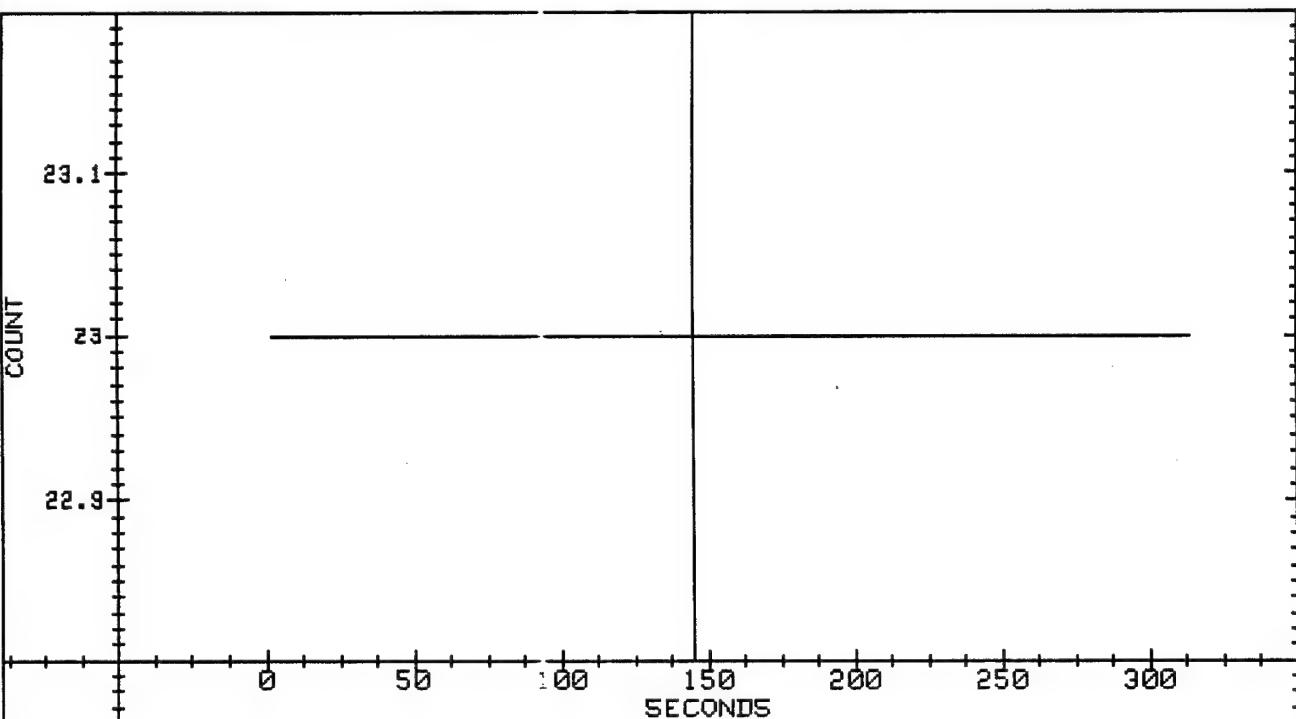
INS GROUND SPEED

DAY 179 TIME 2:13 PRSS 23 m- 247.4, sd- .593749



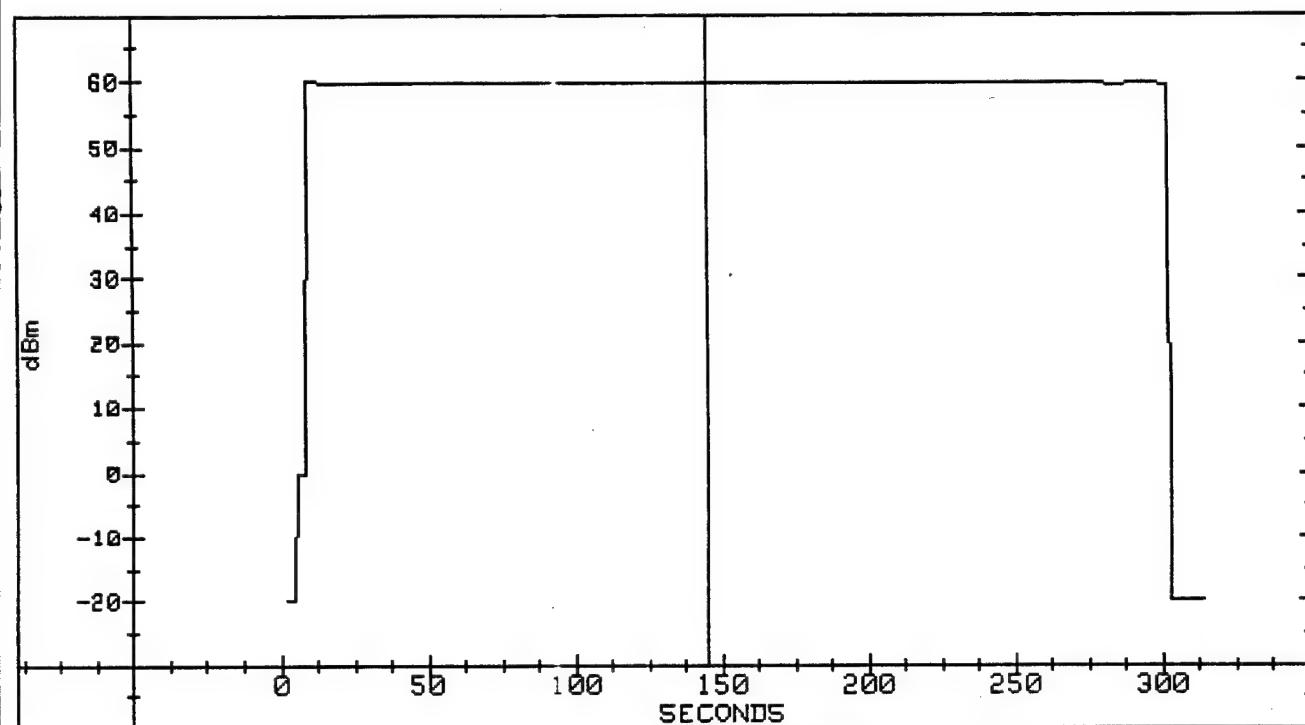
PASS NUMBER

DAY 179 TIME 2:13 PASS 23 m- 23, sd- 0

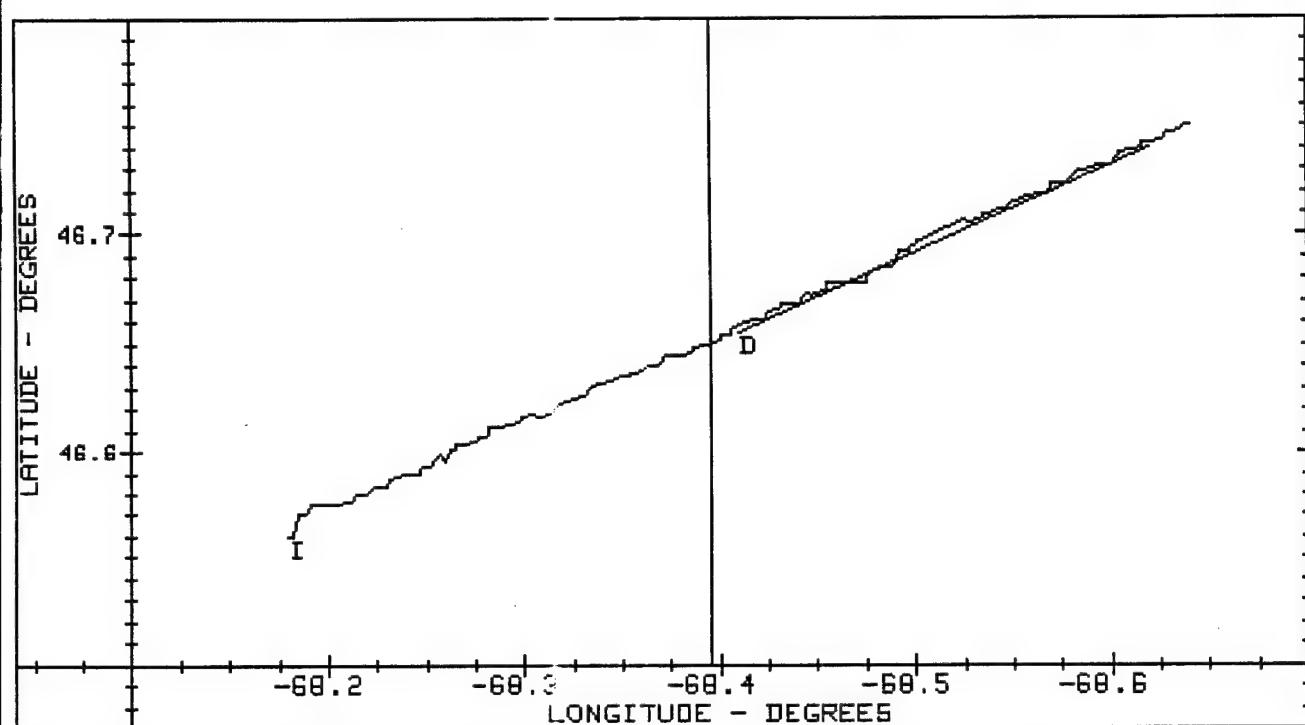


P Band Power

DAY 179 TIME 2:13 PASS 23 $m = 53.6$, $sd = 20.8105$

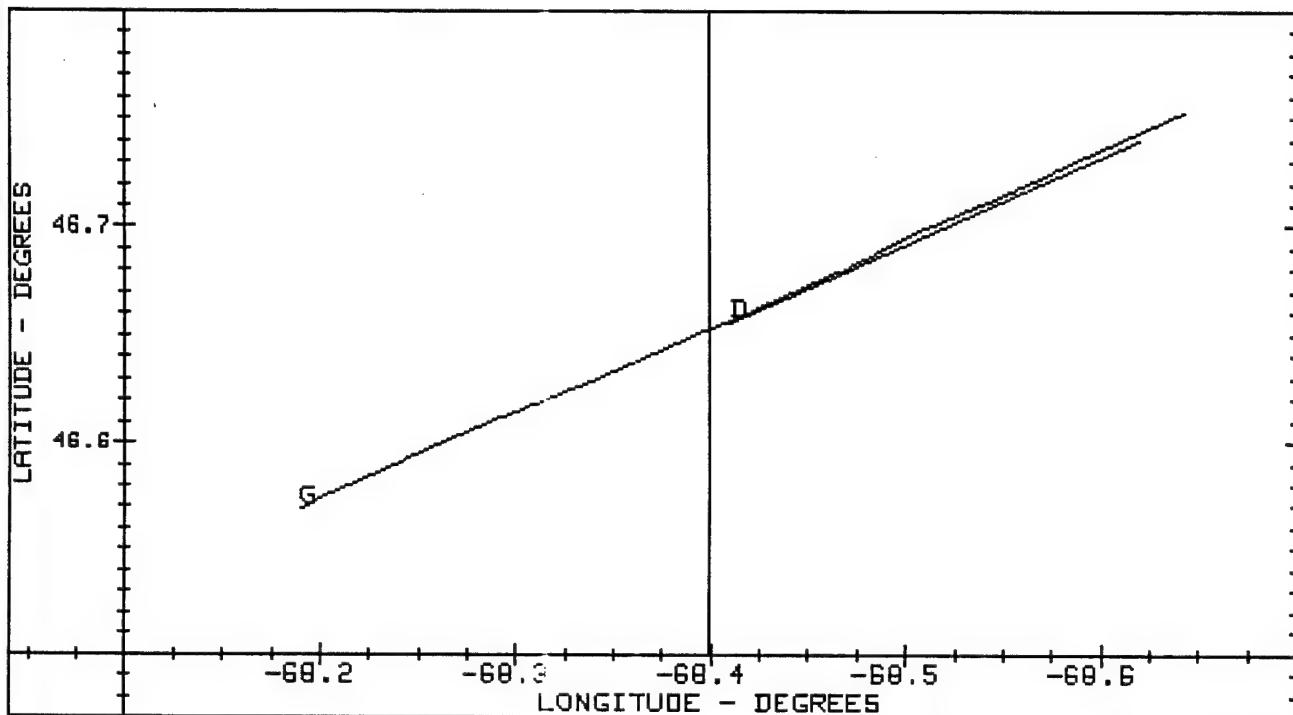


INS AIRCRAFT POSITION
DAY 179 TIME 2:13 PASS 23



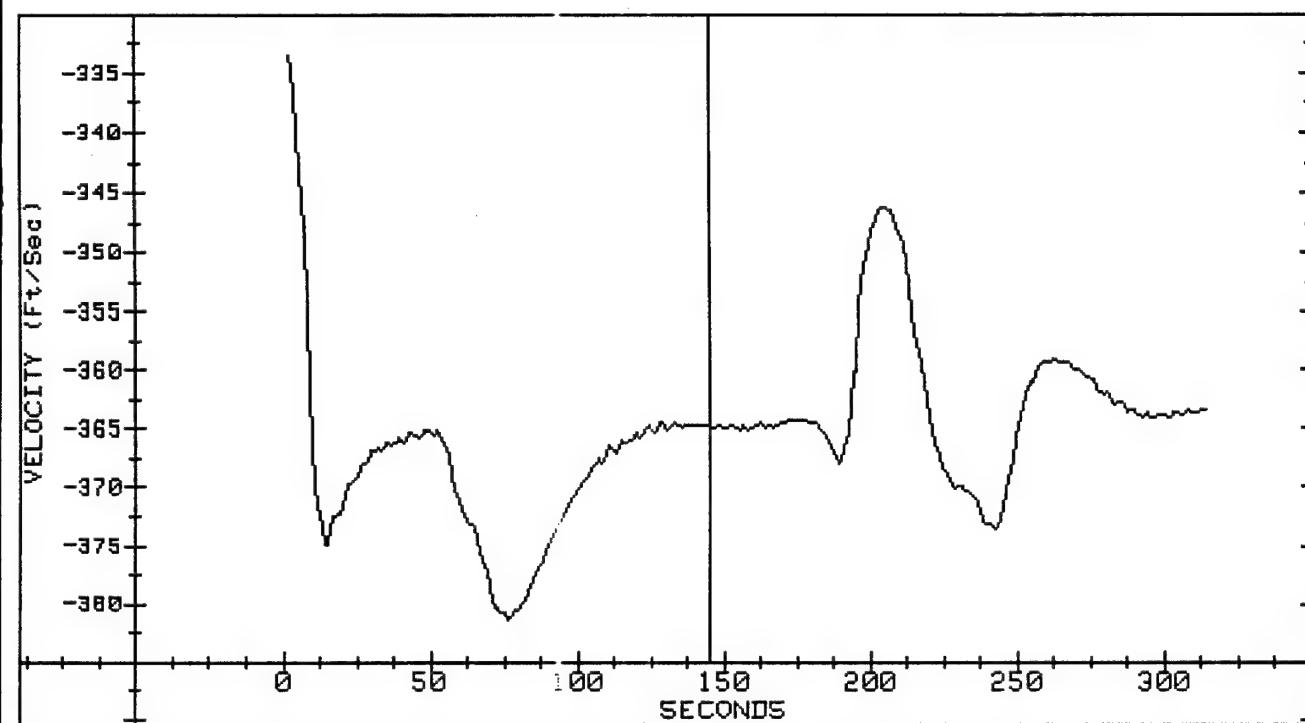
GPS AIRCRAFT POSITION

DAY 179 TIME 2:13 PASS 23



GPS Ve

DAY 179 TIME 2:13 PASS 29 m= -362.7, sd= 6.09134

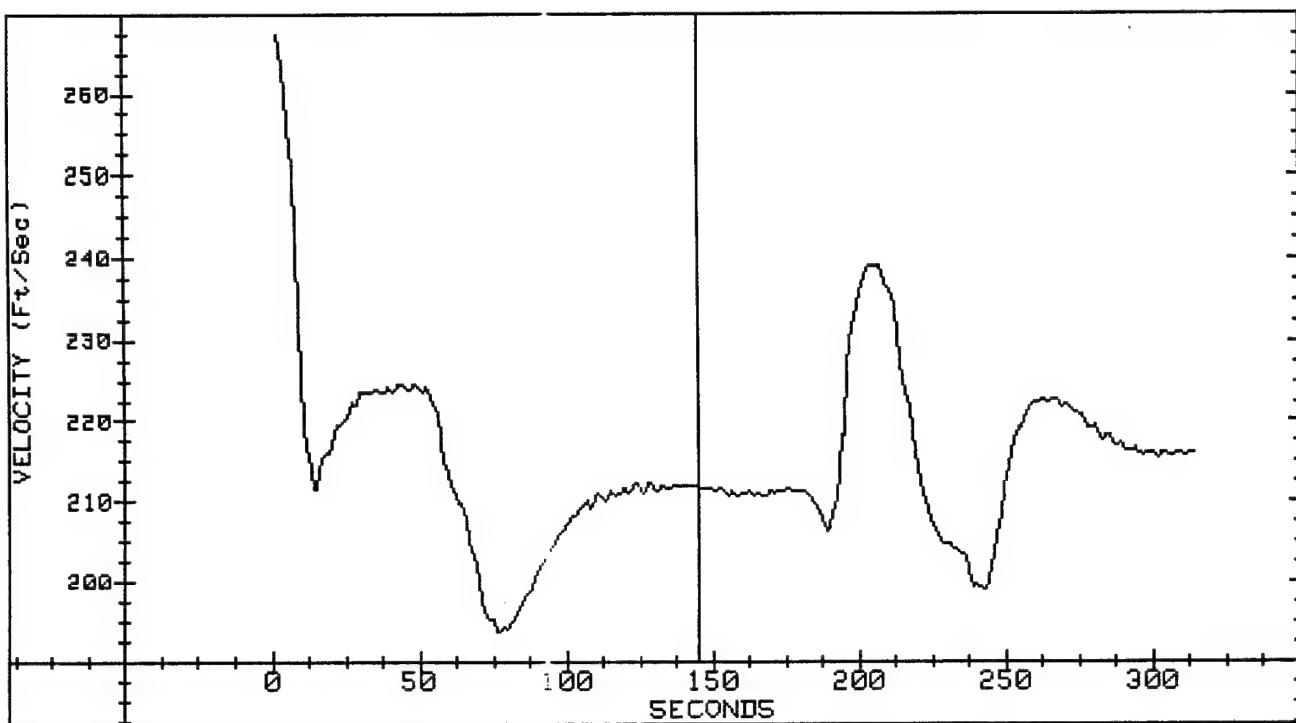


GPS Vn

DAY 179 TIME 2:13

PASS 23

m= 216, sd= 9.26844

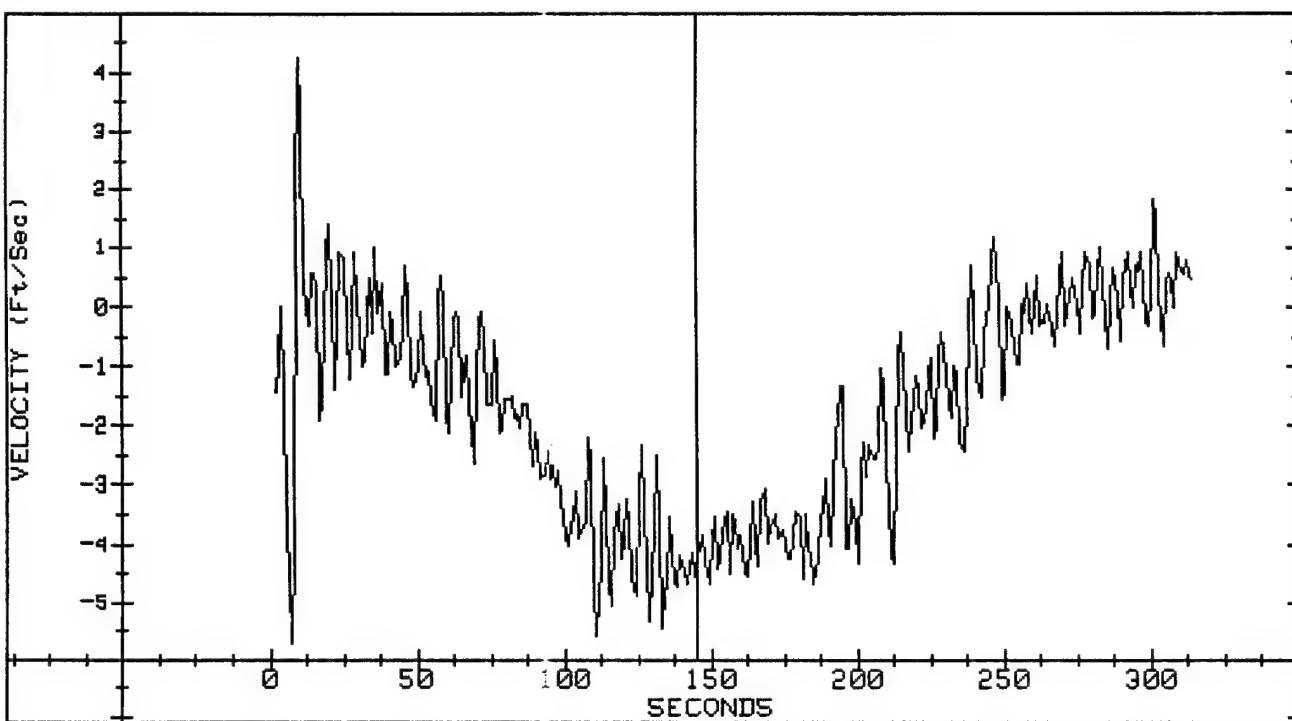


GPS Vv

DAY 179 TIME 2:13

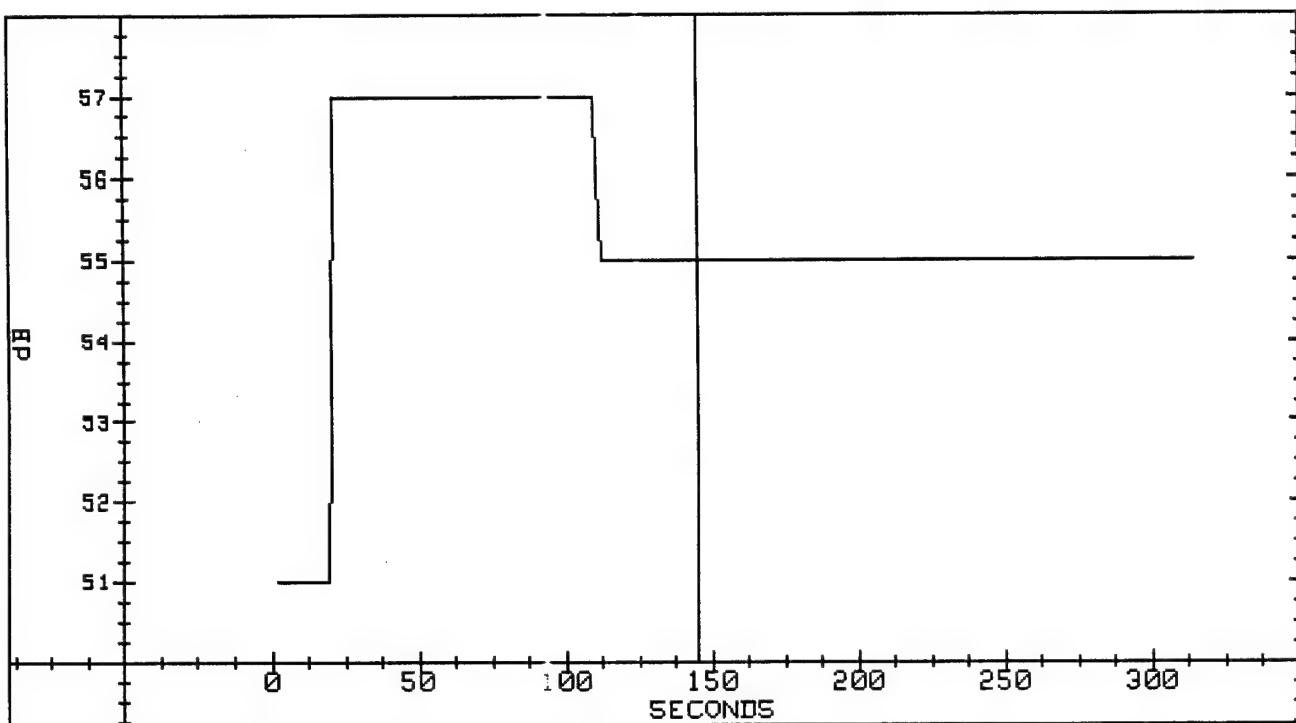
PASS 23

$m = -1.45$, $sd = 1.7963$



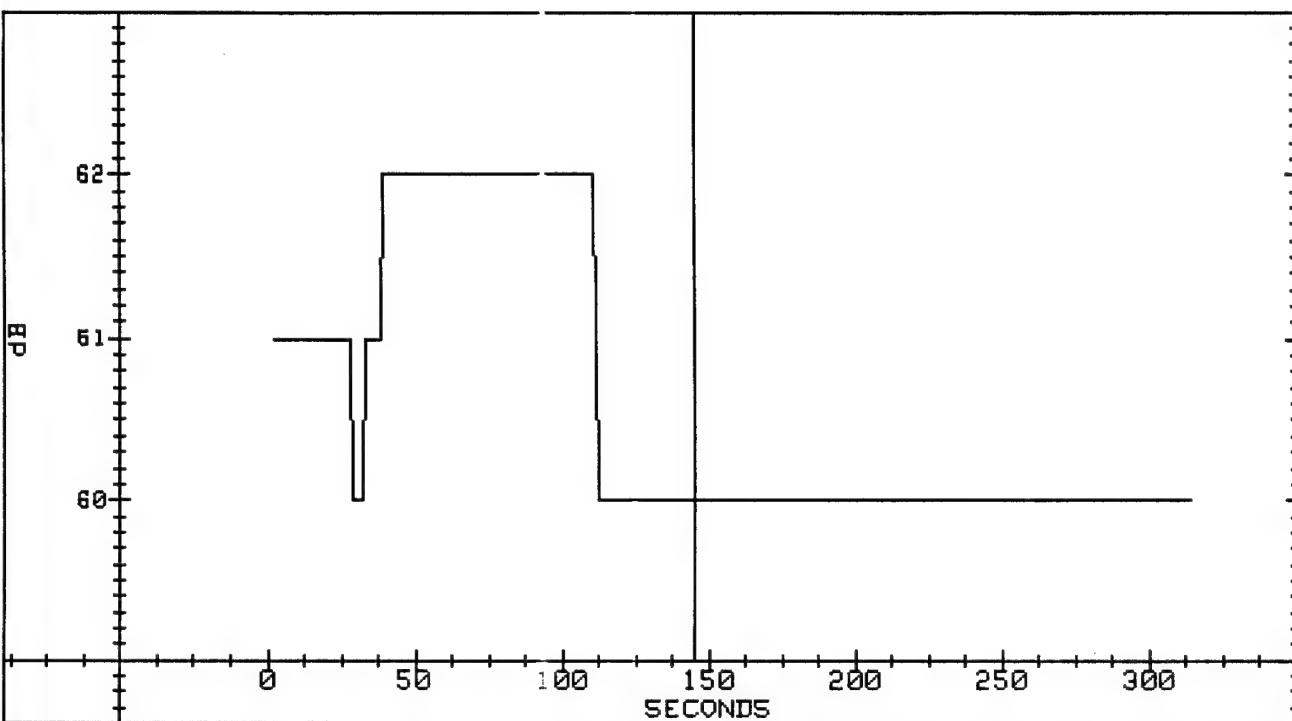
Ch1 RES Attenuation

DAY 179 TIME 2:13 PASS 23 m= 55, sd= 0



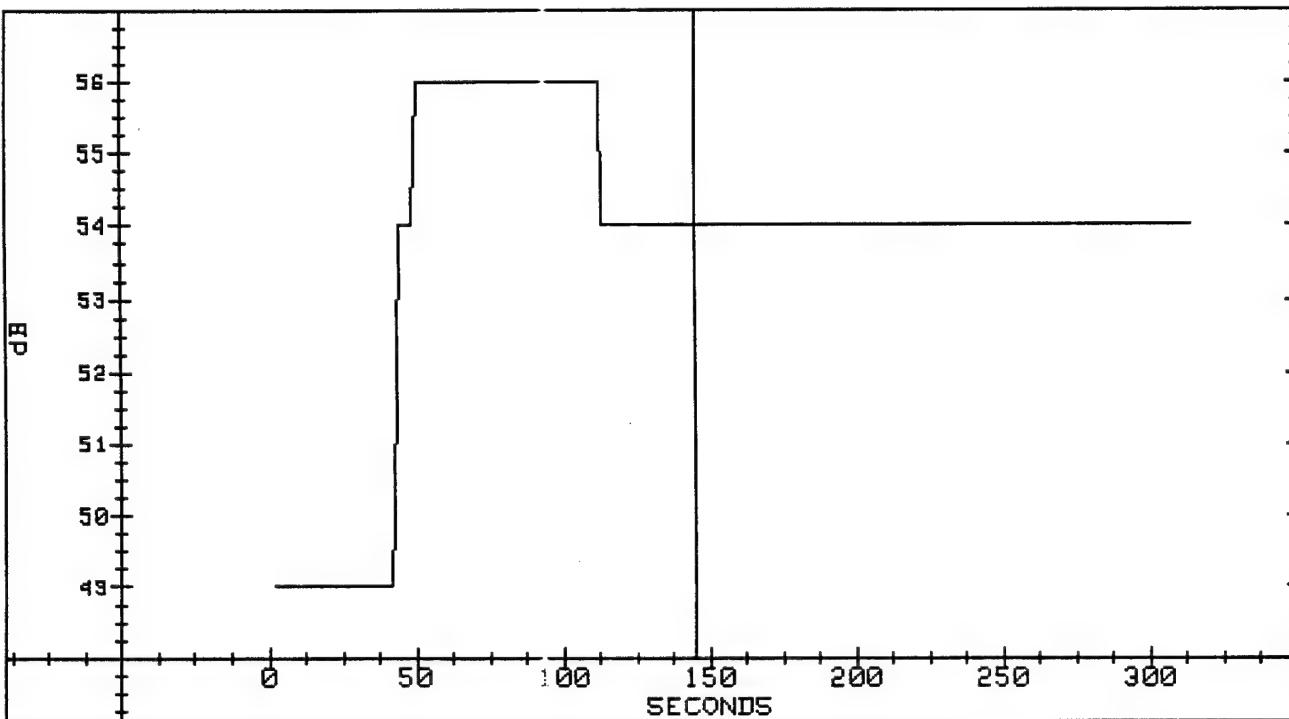
Ch2 RES Attenuation

DAY 179 TIME 2:13 PASS 23 m= 60, sd= 0



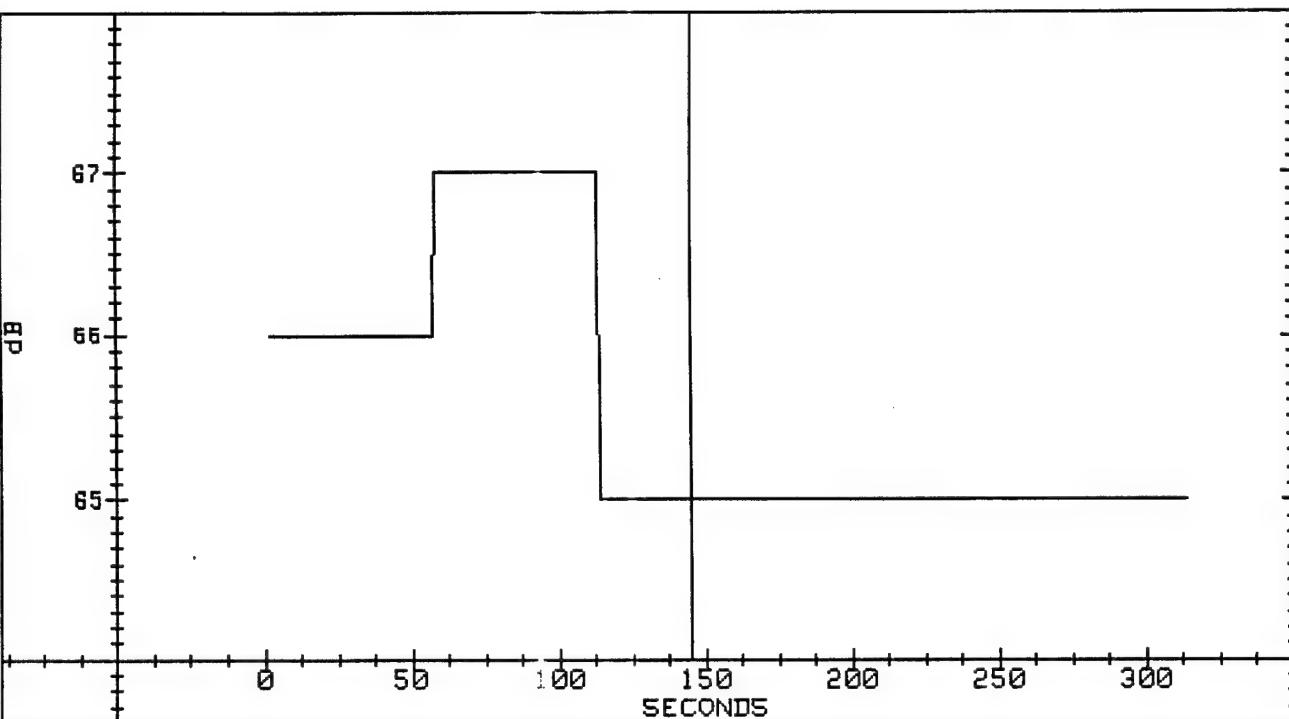
Ch3 RES Attenuation

DAY 179 TIME 2:13 PASS 23 m= 54, sd= 0



Ch4 RES Attenuation

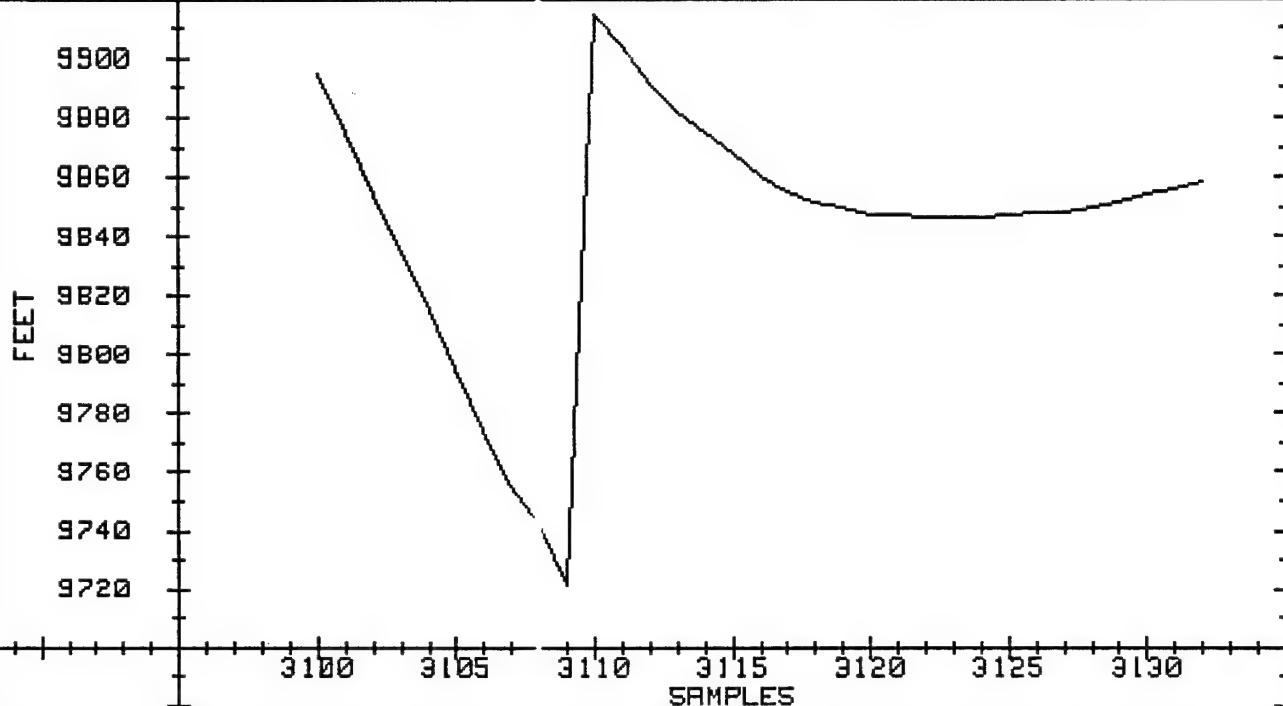
DAY 179 TIME 2:13 PASS 23 m= 65, sd= 0



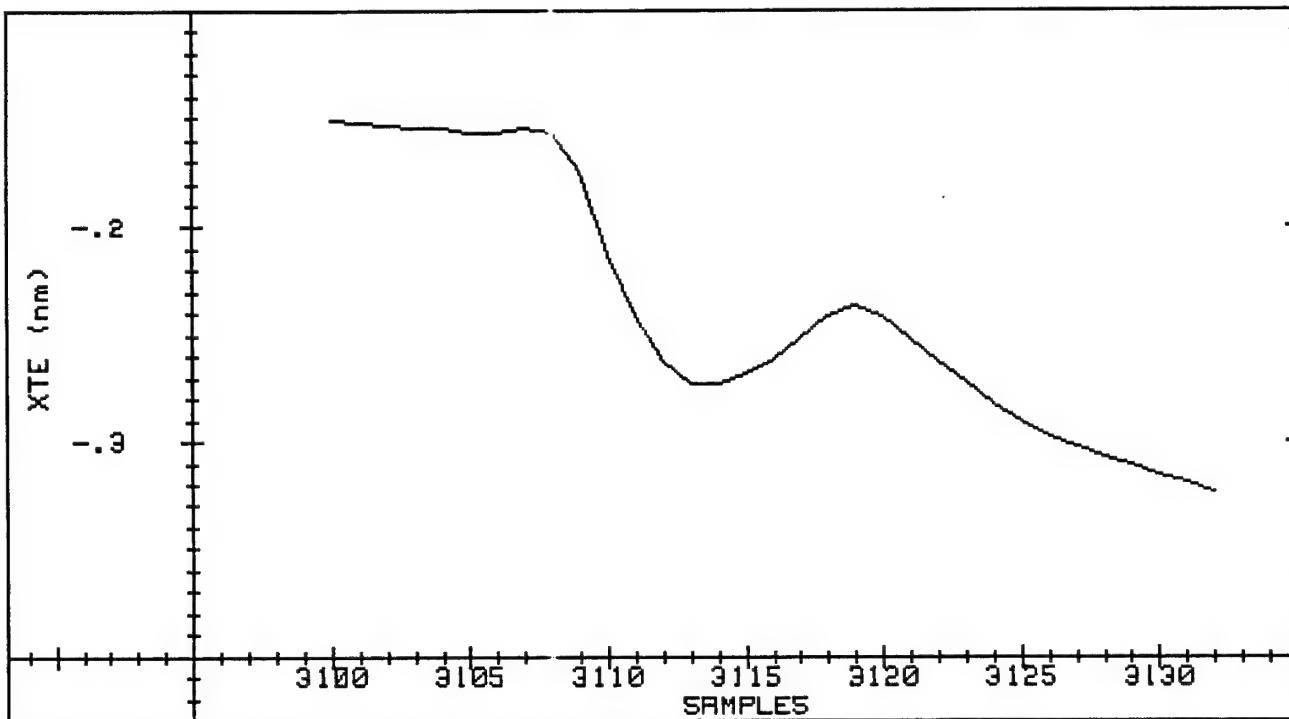
GPS ALTITUDE

MEAN= 9844.12 STANDARD DEVIATION= 42.7205
DATE: June 27, 1995 PASS 23

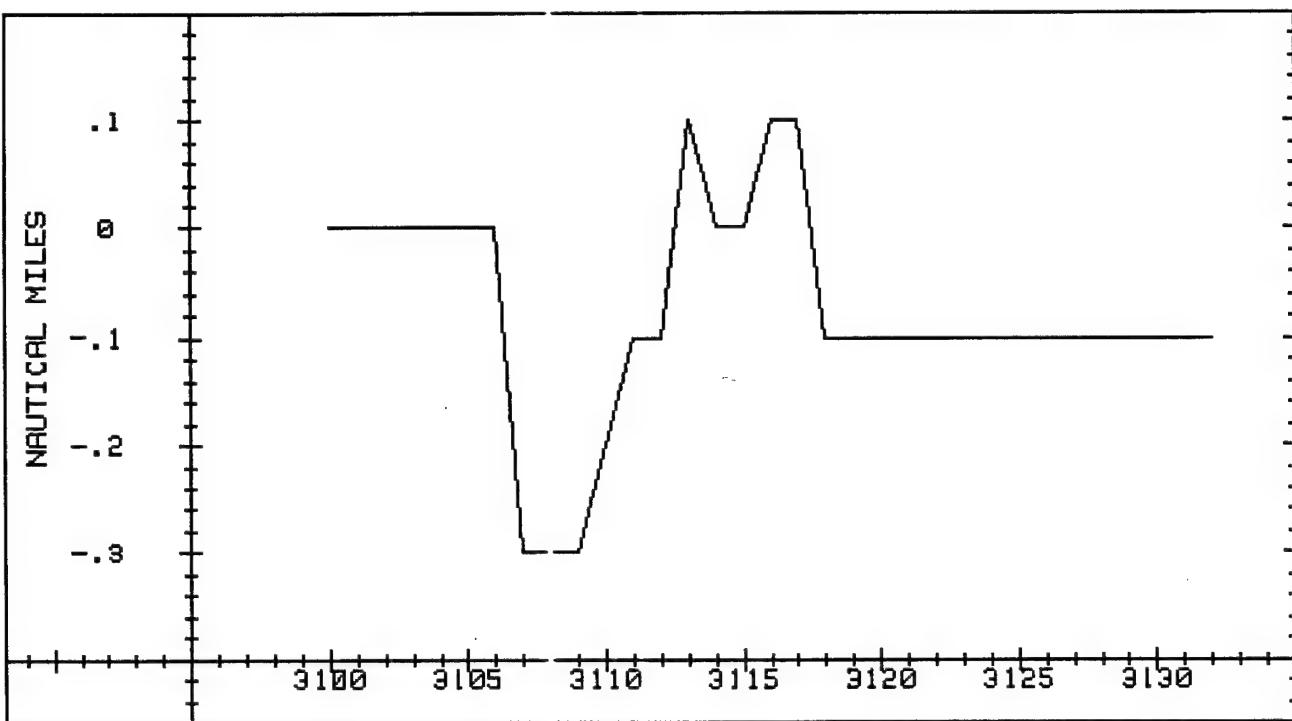
OFF
ON
BAR



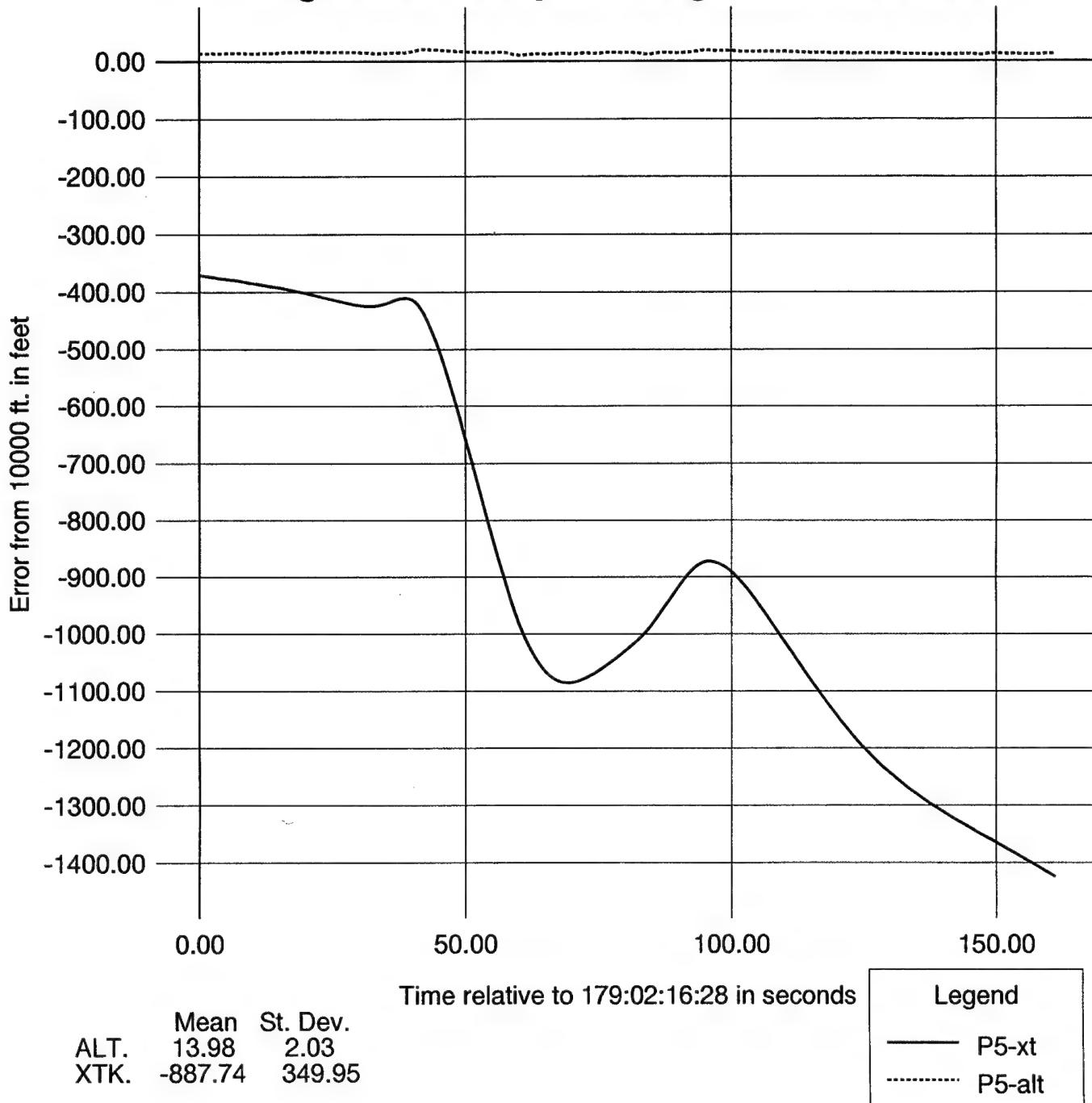
GPS Cross Track Error
MEAN= -.238121 STANDARD DEVIATION= .0552646
DATE: June 27, 1995 PASS 23



INS CROSS TRACK ERROR
MEAN= -.0757576 STANDARD DEVIATION= .0585664
DATE: June 27, 1995 PASS 23



**Portage, ME - June 27, 1995 - Pass 23 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero**



28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 41
Mission: Presque Isle DAY 3

Time: 179:02:38:13
Pass 24
Req. # 22

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5940 ft s.d. =	3 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slr. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	180.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°
Start Sq:	90.0°	Atten (dB):	48.0	55.0	48.0	57.0
End Sq:	90.0°	RMS Video (%FS)	25.4	14.6	18.5	19.0

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 47:01.12	W 68:24.31	Main Target: IE
Start:	N 46:49.12	W 68:24.31	Mocomp Point:
End:	N 46:39.12	W 68:24.31	Lat: N 46:44.12
From:	N 63:21.83	W 68:24.31	Long: W 68:28.98
To:	N 30:02.59	W 68:24.31	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.8 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -1.2 fps (s.d.= 6.4)
Ave Fil Vel -> .6 fps (s.d.= 6.0)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 5136 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 6402 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 40.1			

Vel Bias	CAL Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 02:38:13
End: 02:40:53

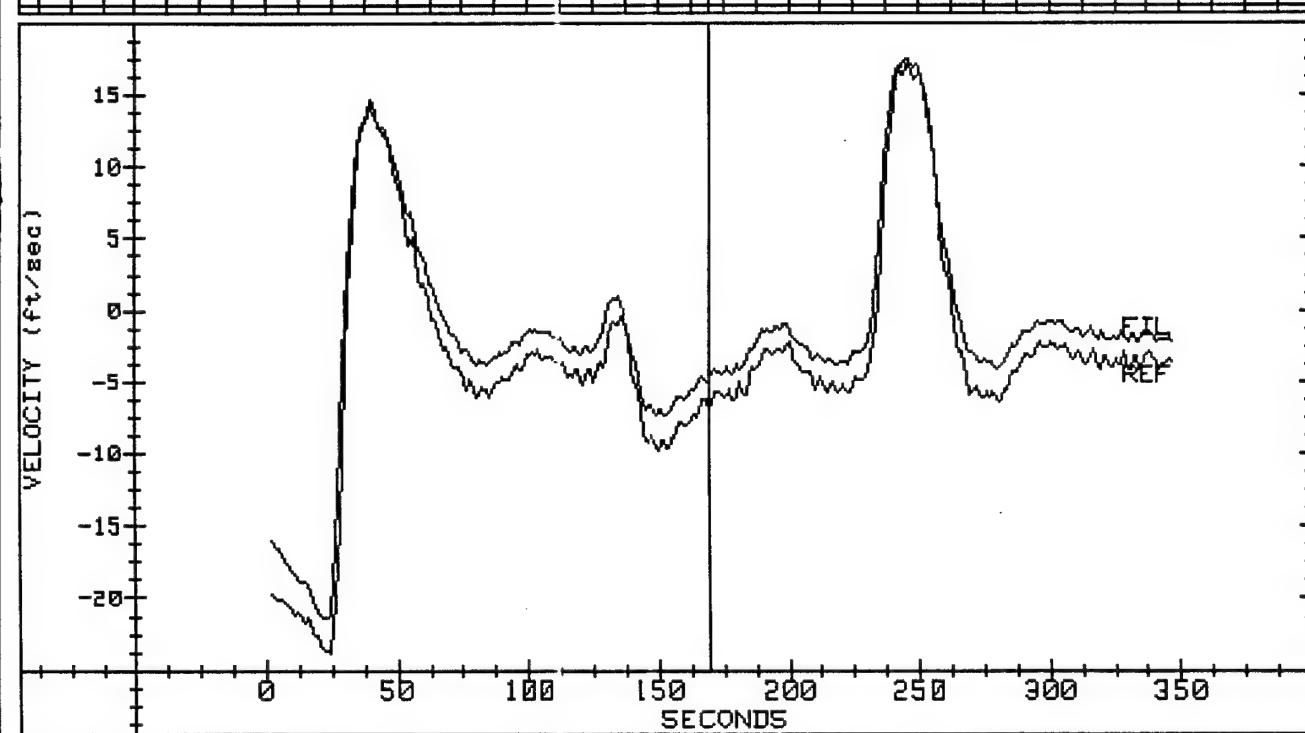
Mocomp Counters

Start: 1449751 00161F17h
End: 1476593 001687F1h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

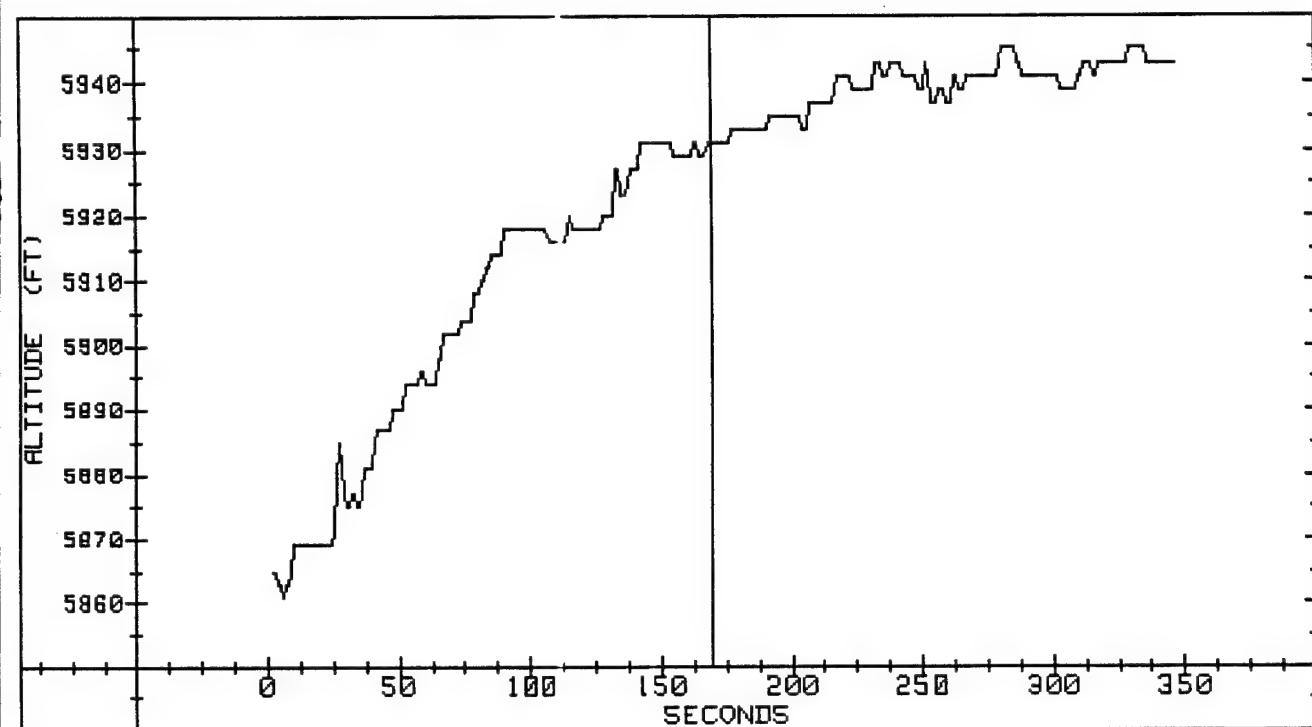
FILTERED vs. REF. VELOCITY
DAY 179 TIME 2:35 PASS 24

ING
LORAN
GPS



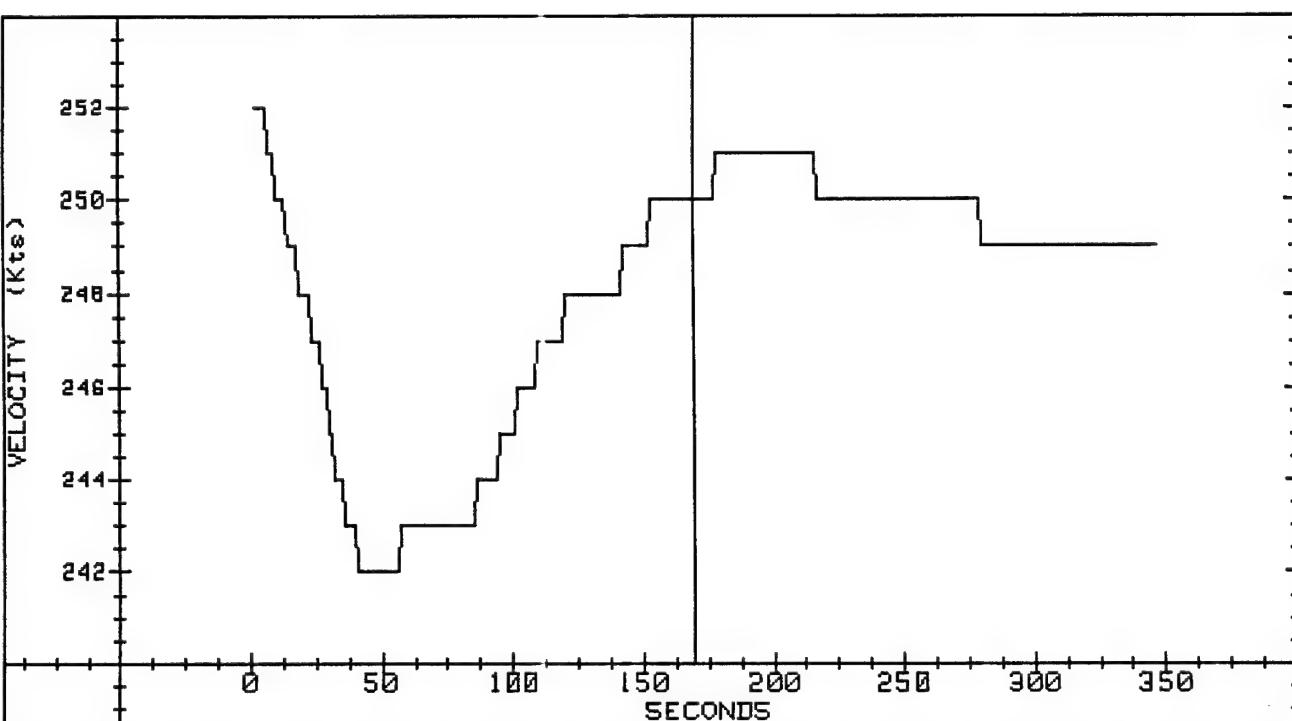
BARO ALTITUDE

DAY 179 TIME 2:35 PASS 24 m- 5940, sd- 3.1172



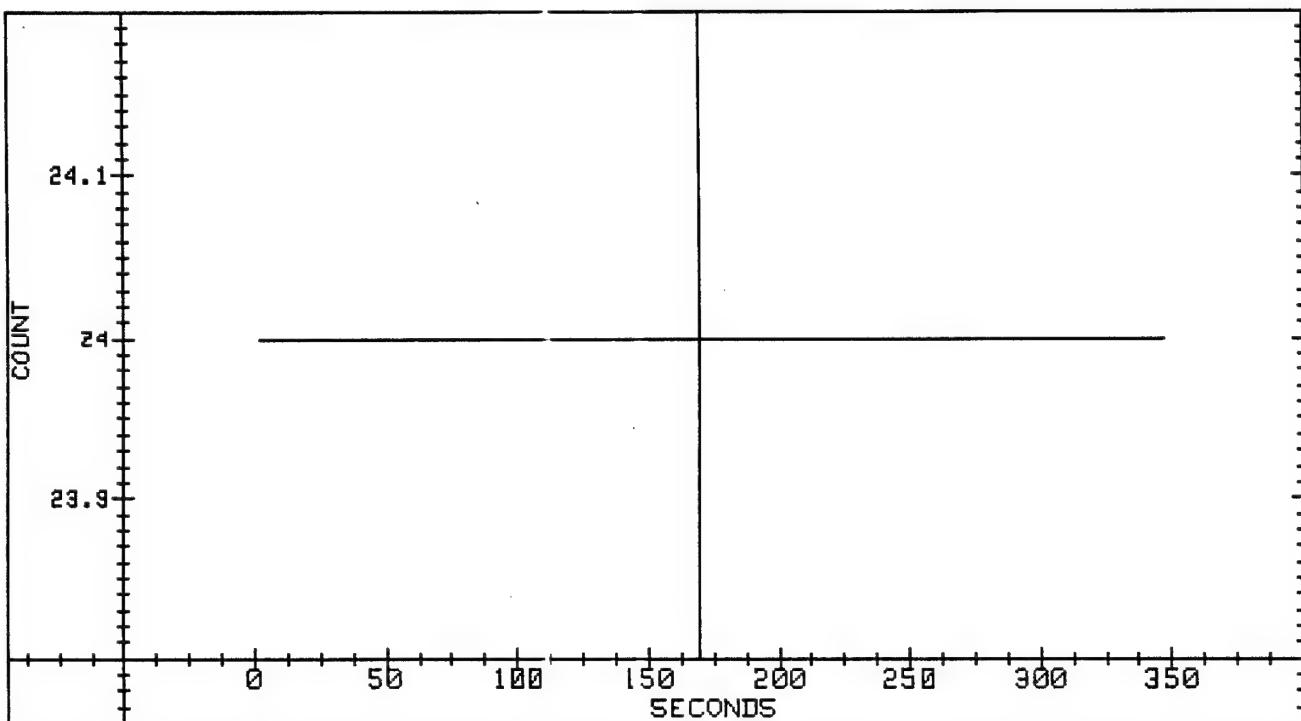
INS GROUND SPEED

DAY 179 TIME 2:35 PRSS 24 m- 249.B, sd- .743B32



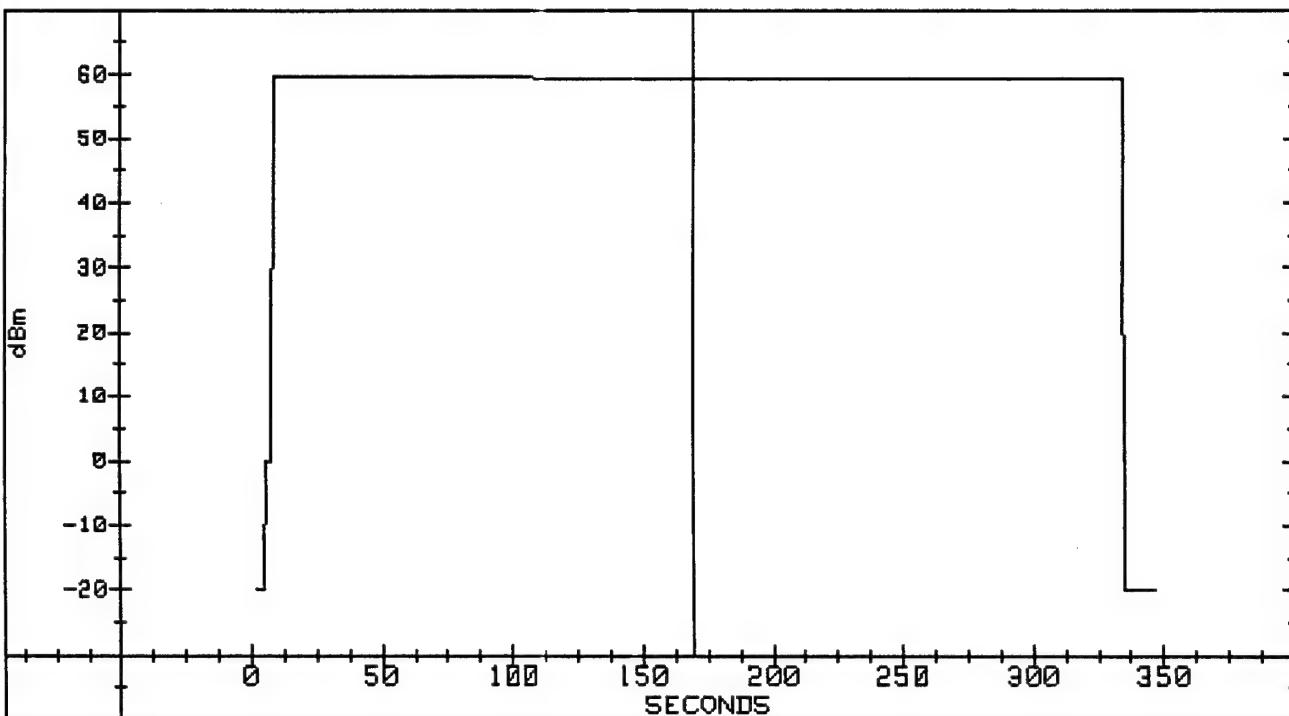
PASS NUMBER

DAY 179 TIME 2:35 PASS 24 m= 24, sd= 0



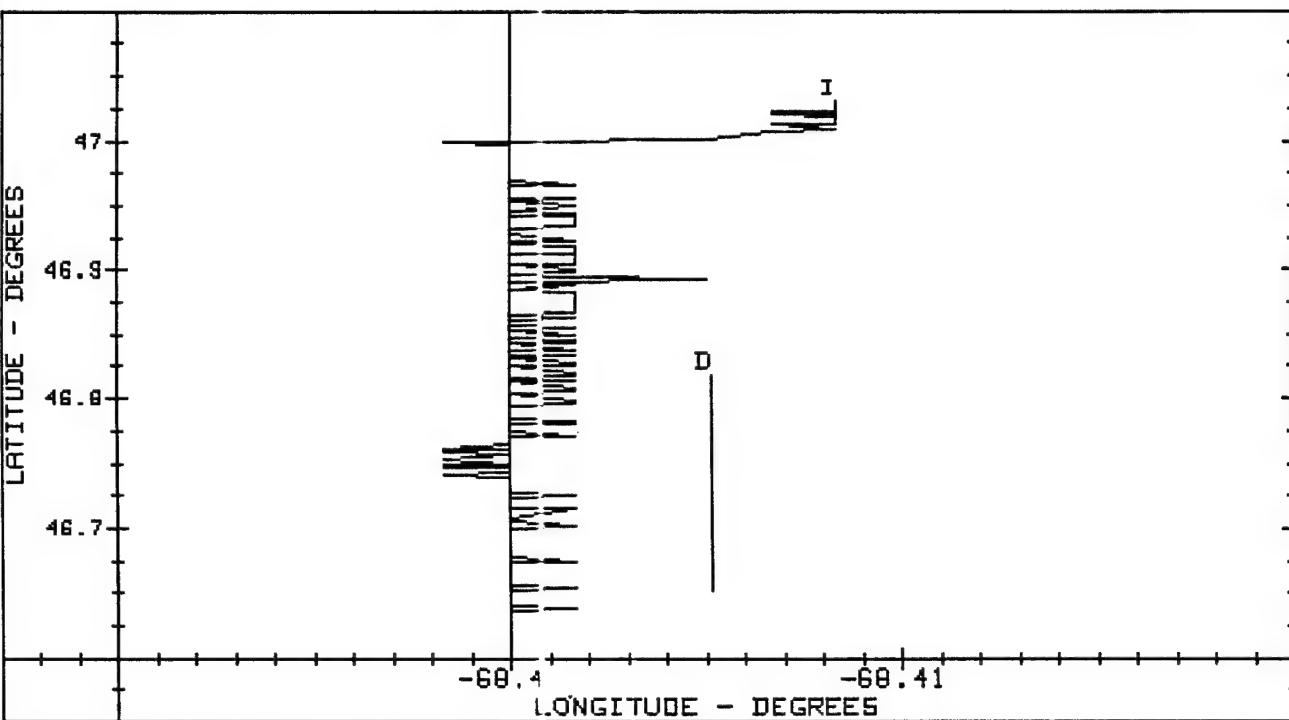
P Band Power

DAY 179 TIME 2:35 PASS 24 m= 52.91, sd= 21.6074



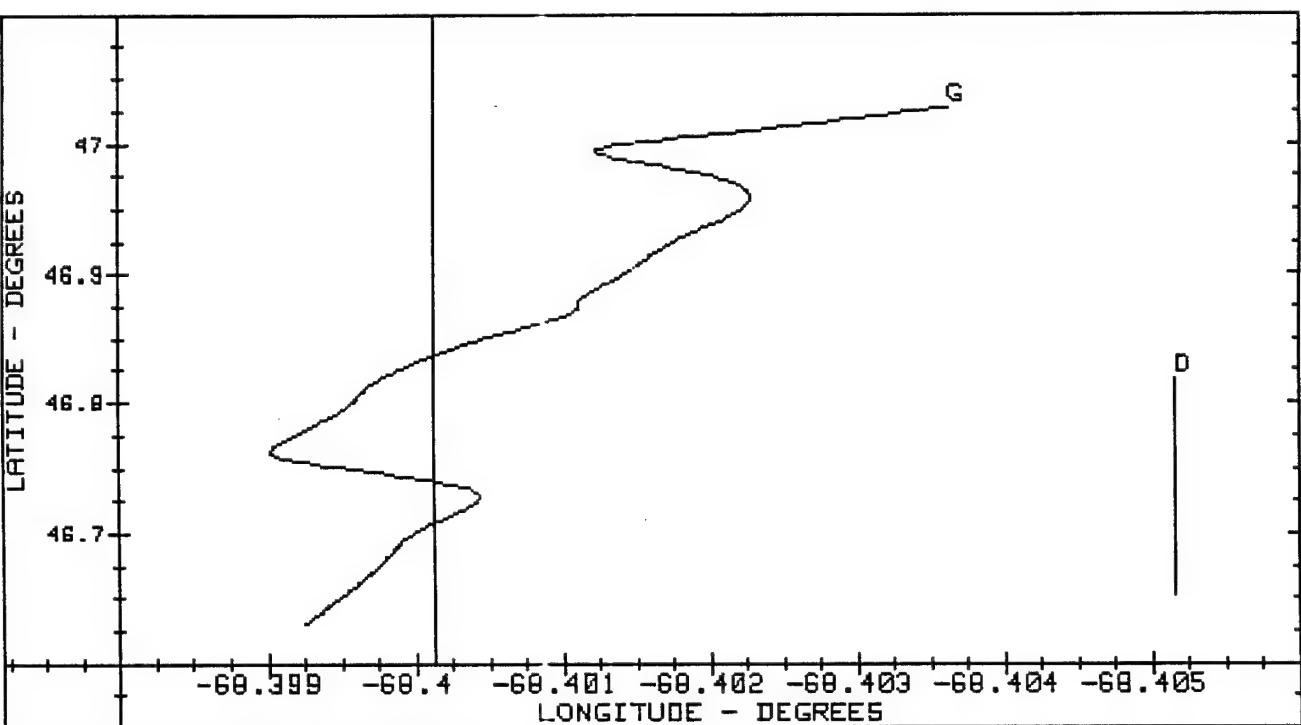
INS AIRCRAFT POSITION

DAY 179 TIME 2:35 PASS 24



GPS AIRCRAFT POSITION

DAY 179 TIME 2:35 PASS 24

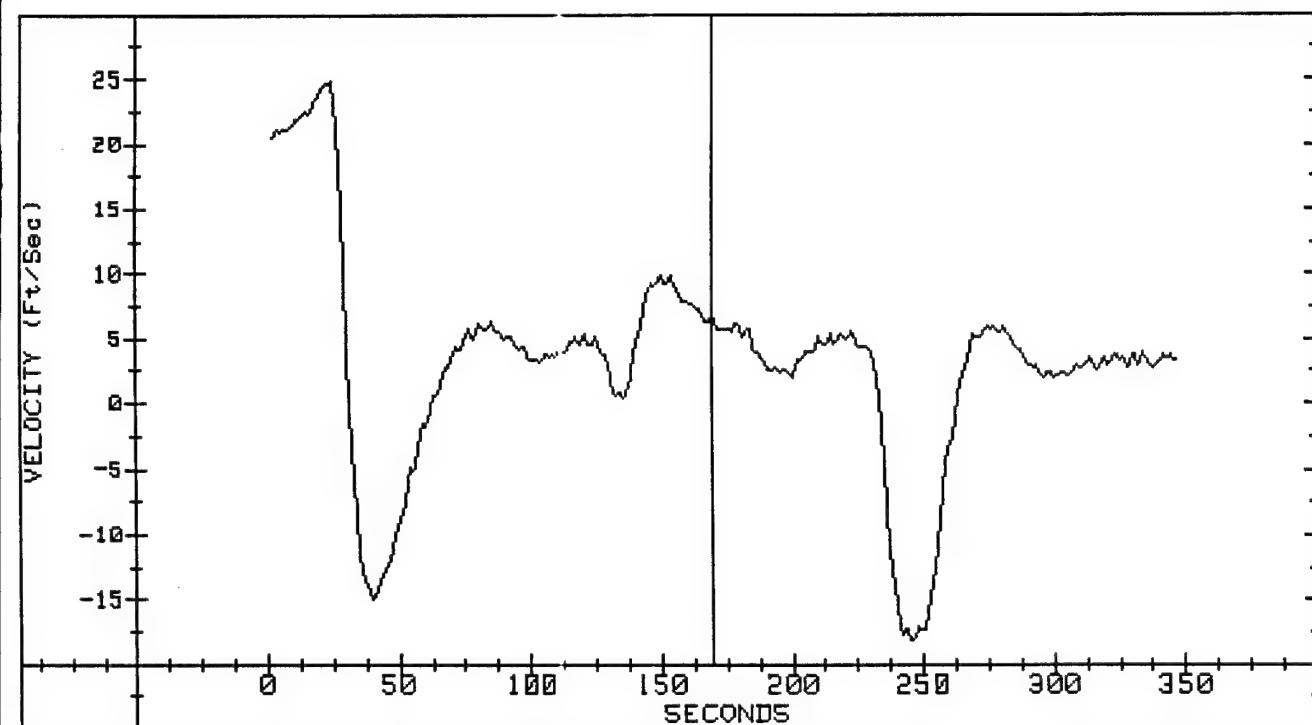


GPS Ve

DRY 179 TIME 2:35

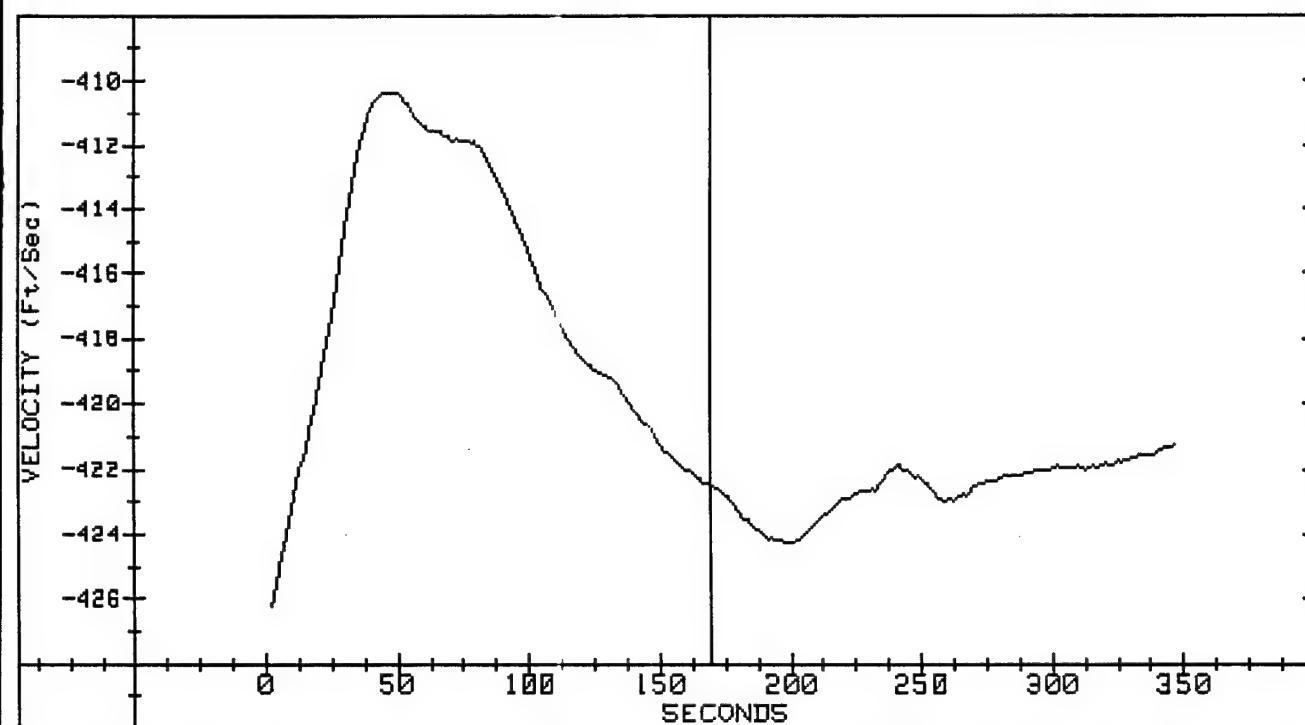
PRSS 24

m- .7704, sd- 6.64346



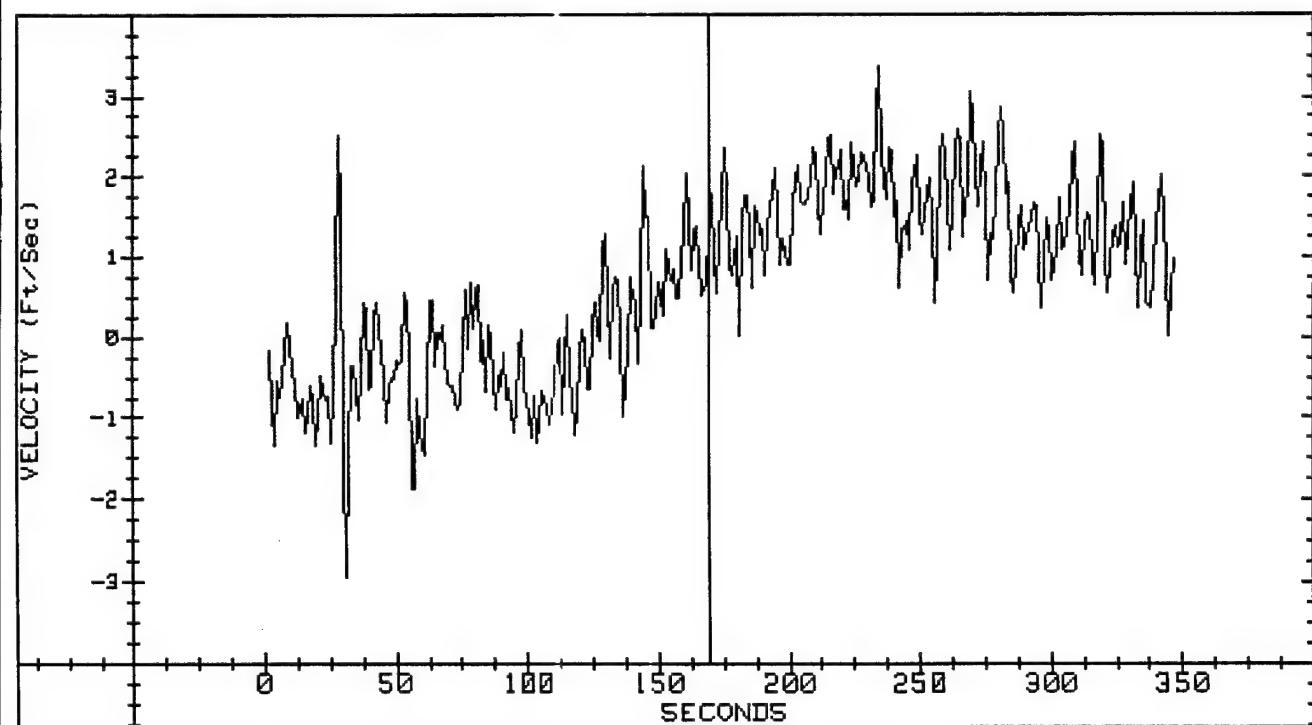
GPS Vn

DAY 179 TIME 2:35 PASS 24 m= -422.5, sd= .796028



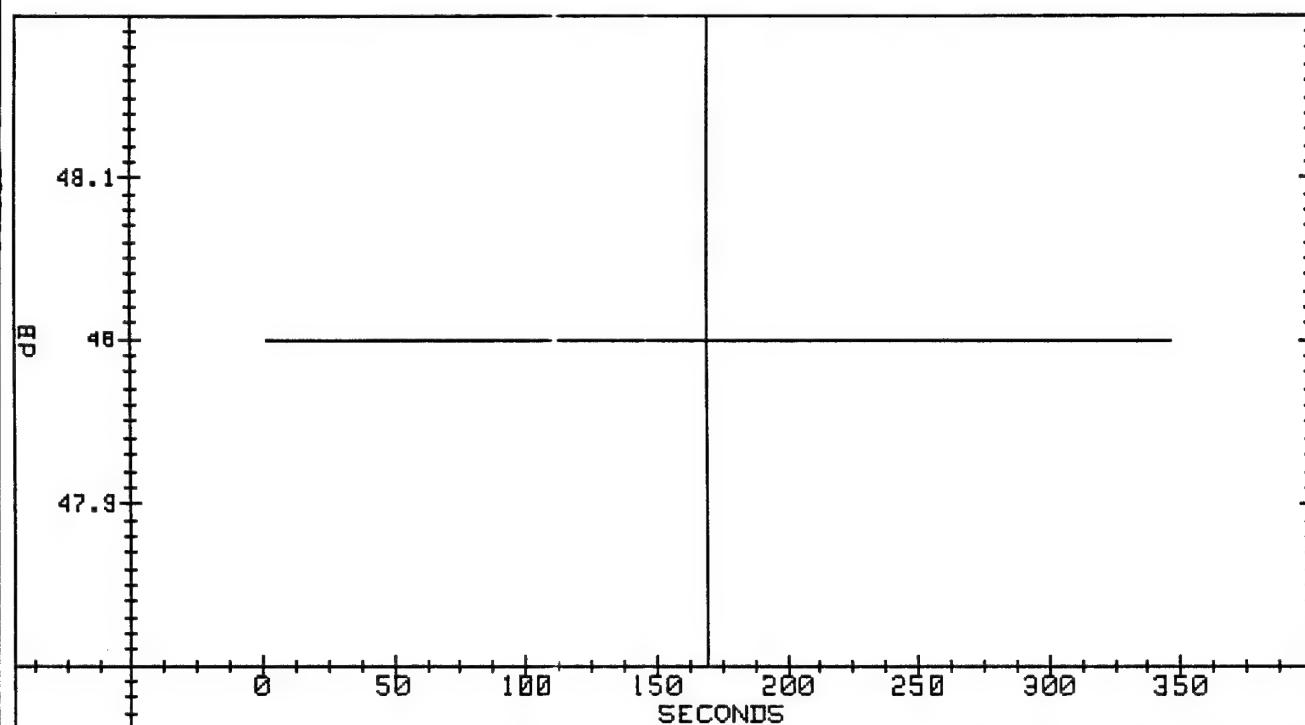
GPS Vv

DAY 179 TIME 2:35 PRSS 24 m- 1.575, sd- .607315



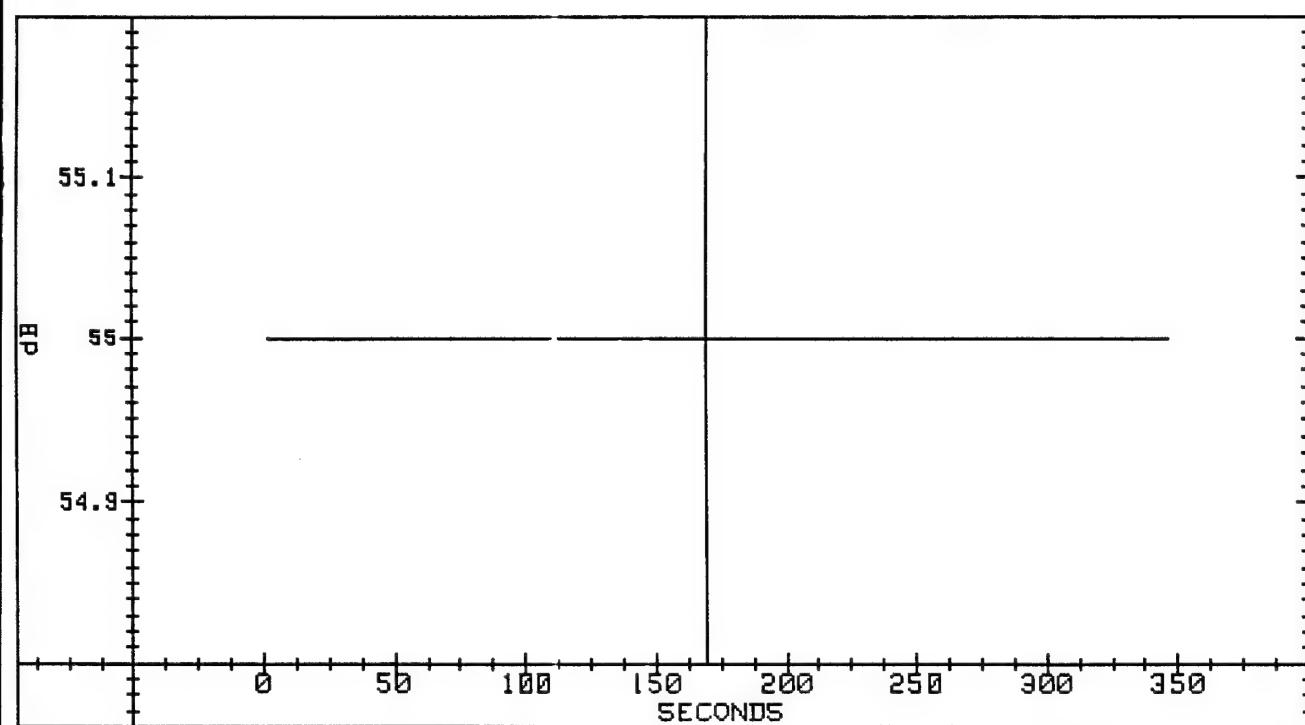
Ch1 RES Attenuation

DAY 179 TIME 2:35 PASS 24 m= 48, sd= 0



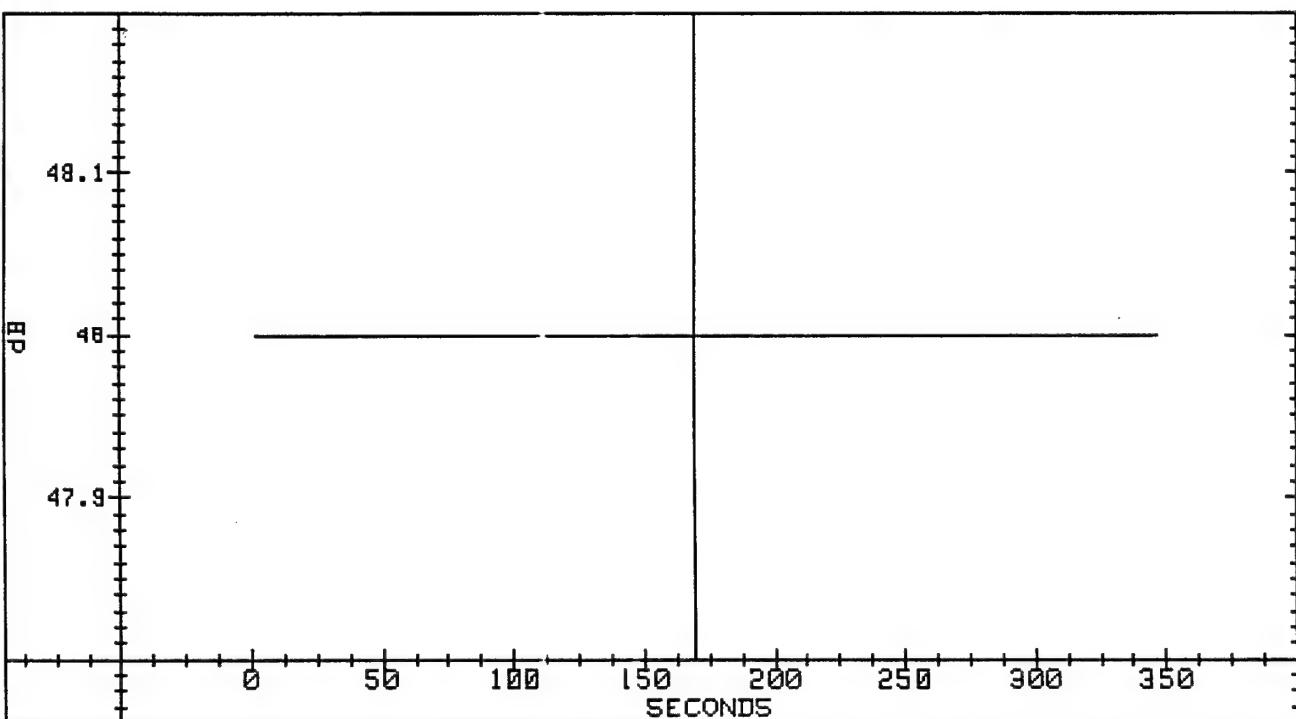
Ch2 RES Attenuation

DAY 179 TIME 2:35 PASS 24 m= 55, sd= 0



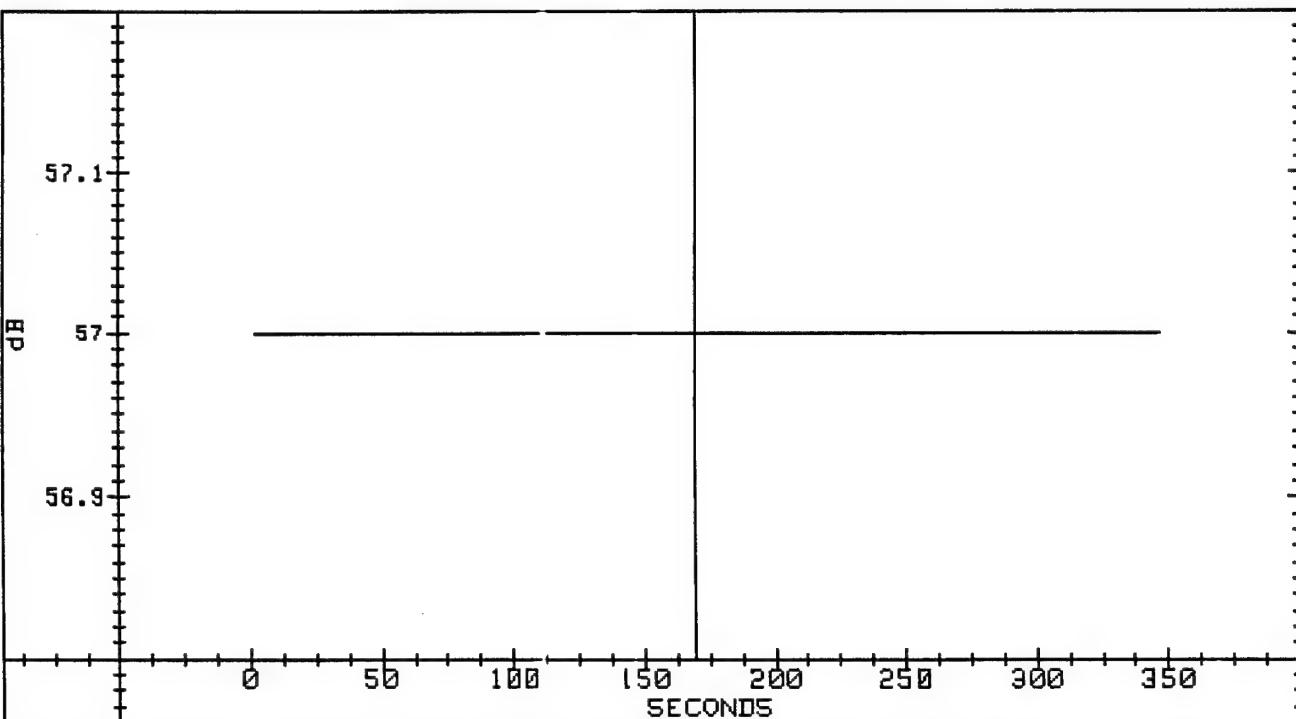
Ch3 RES Attenuation

DAY 179 TIME 2:35 PASS 24 m= 48, sd= 0



Ch4 RES Attenuation

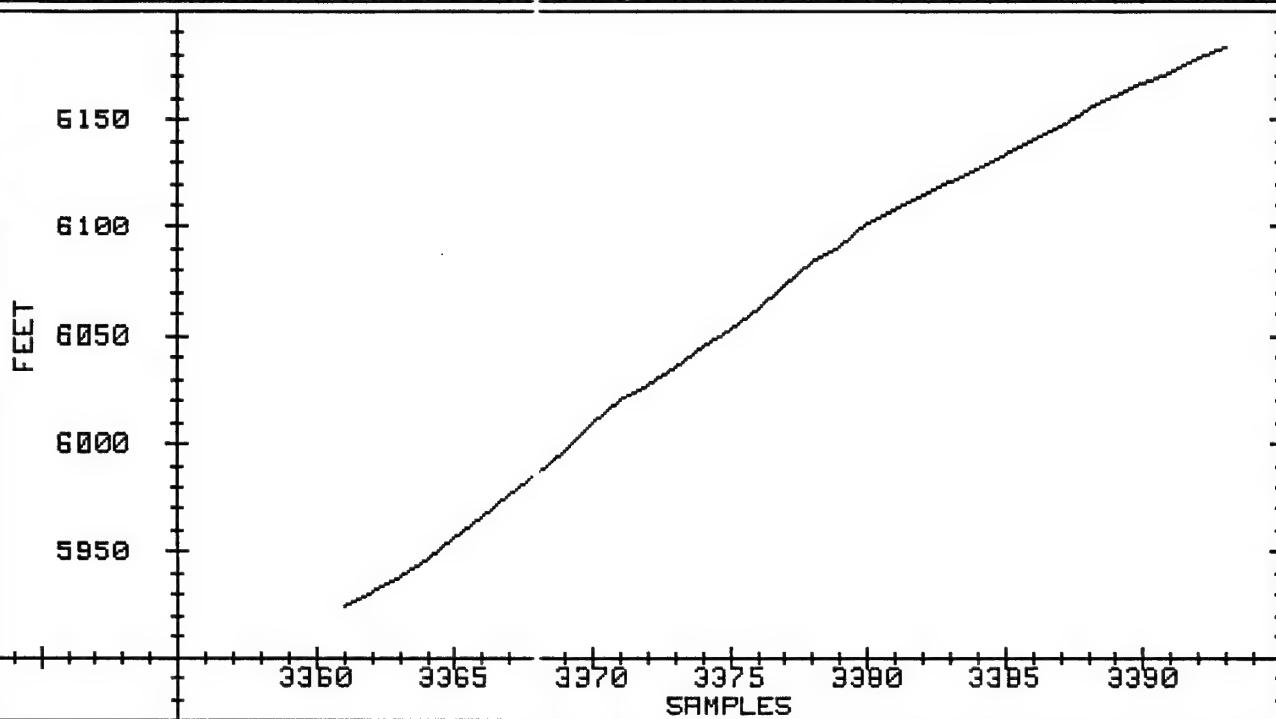
DAY 179 TIME 2:35 PASS 24 m= 57, sd= 0



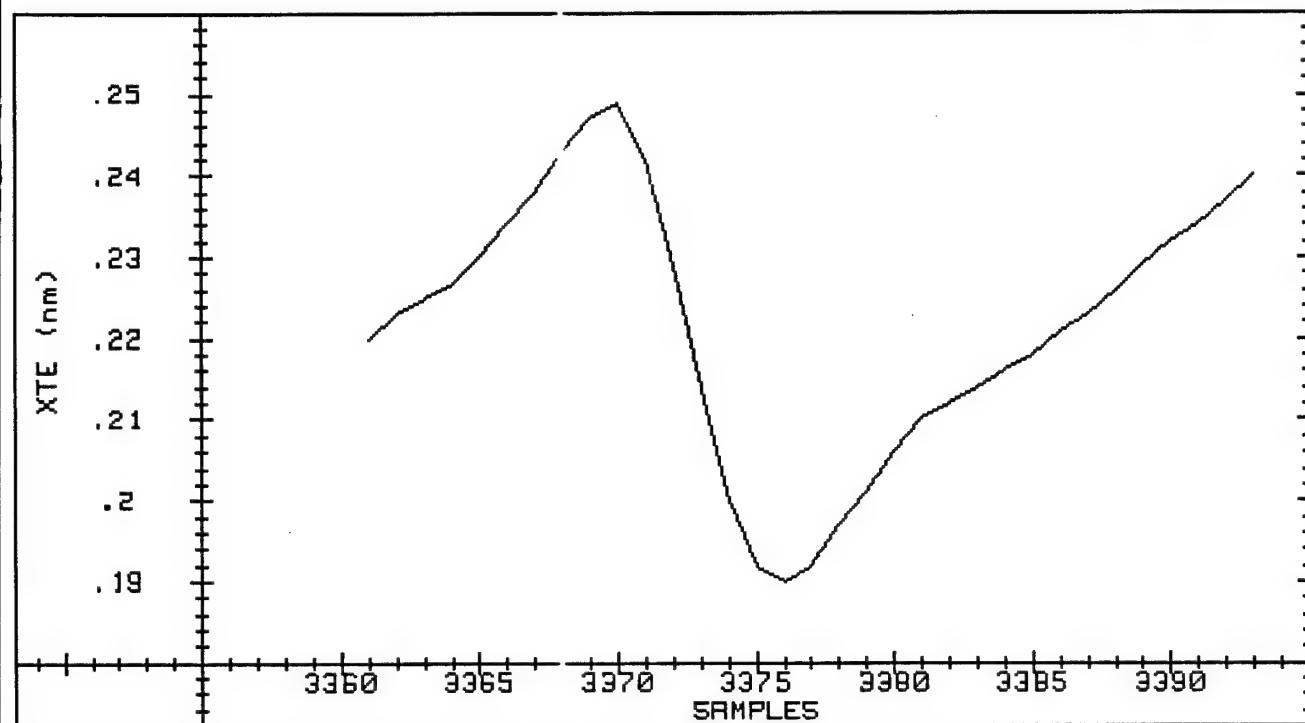
GPS ALTITUDE

MEAN= 6064.54 STANDARD DEVIATION= 80.2465
DATE: June 27, 1995 PASS 24

OFF
ON
BAR



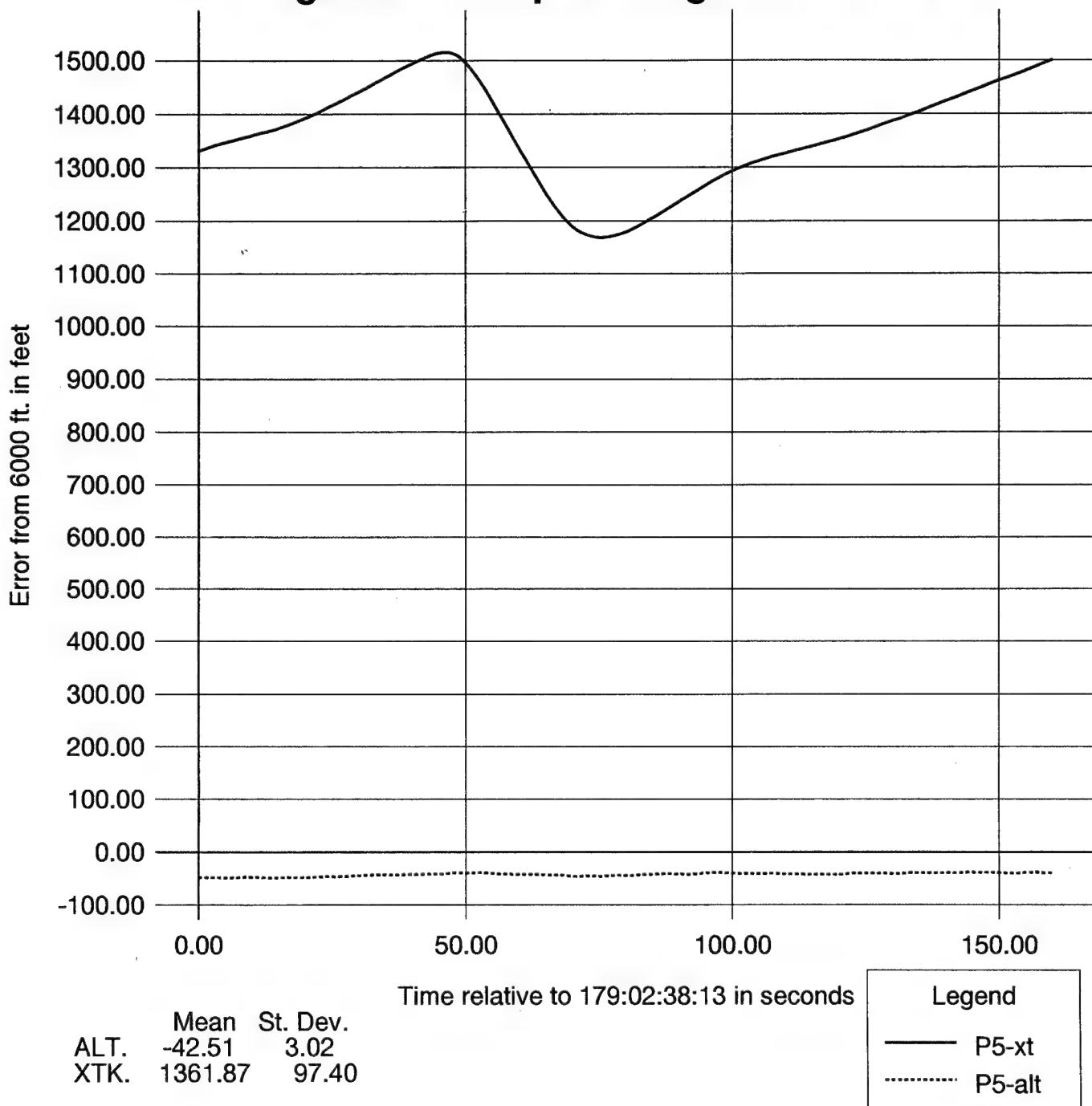
GPS Cross Track Error
MEAN= .221545 STANDARD DEVIATION= .0161941
DATE: June 27, 1995 PASS 24



INS CROSS TRACK ERROR
MEAN= -.069697 STANDARD DEVIATION= .0521353
DATE: June 27, 1995 PASS 24



Portage, ME - June 27, 1995 - Pass 24 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero



28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 43
Mission: Presque Isle DAY 3

Time: 179:02:48:11
Pass 25
Req. # 23

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5950 ft s.d. =	2 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	0.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°
Start Sq:	90.0°	Atten (dB):	53.0	73.0	54.0	73.0
End Sq:	90.0°	RMS Video (%FS)	17.7	6.1	12.2	5.6

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:27.13	W 68:33.65	Main Target: IE
Start:	N 46:39.12	W 68:33.65	Mocomp Point:
End:	N 46:49.12	W 68:33.65	Lat: N 46:44.12
From:	N 30:02.59	W 68:33.65	Long: W 68:28.98
To:	N 63:21.83	W 68:33.65	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 251.7 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> -0.0 fps (s.d.= .9)
Ave Fil Vel -> 1.5 fps (s.d.= .8)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 6417 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 7650 ft	(1)
P: 46.4			

Vel Bias	CAJ. Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 02:48:11
Y: 1867.0	L: 63.8 dB	End: 02:50:47
Z: 17142.0	C: 63.8 dB	

Mocomp Counters

Start: 1501772 0016EA4Ch
End: 1504441 0016F4B9h

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 43
Mission: Presque Isle DAY 3

Time: 179:02:48:26
Pass 26
Req. # 23

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5949 ft s.d. =	2 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	0.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°
Start Sq:	90.0°	Atten (dB):	53.0	70.0	54.0	70.0
End Sq:	90.0°	RMS Video (%FS)	15.3	6.0	10.8	6.3

WAYPOINTS

Latitude	Longitude	
Line_up: N 46:27.13	W 68:33.65	Main Target: IE
Start: N 46:39.12	W 68:33.65	Mocomp Point:
End: N 46:49.12	W 68:33.65	Lat: N 46:44.12
From: N 30:02.59	W 68:33.65	Long: W 68:28.98
To: N 63:21.83	W 68:33.65	Tgt Trk: 0.0 Tgt Vel: 0.0
		Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 251.8 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTL1U2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 3.0 fps (s.d.= .9)
Ave Fil Vel -> 4.7 fps (s.d.= .9)

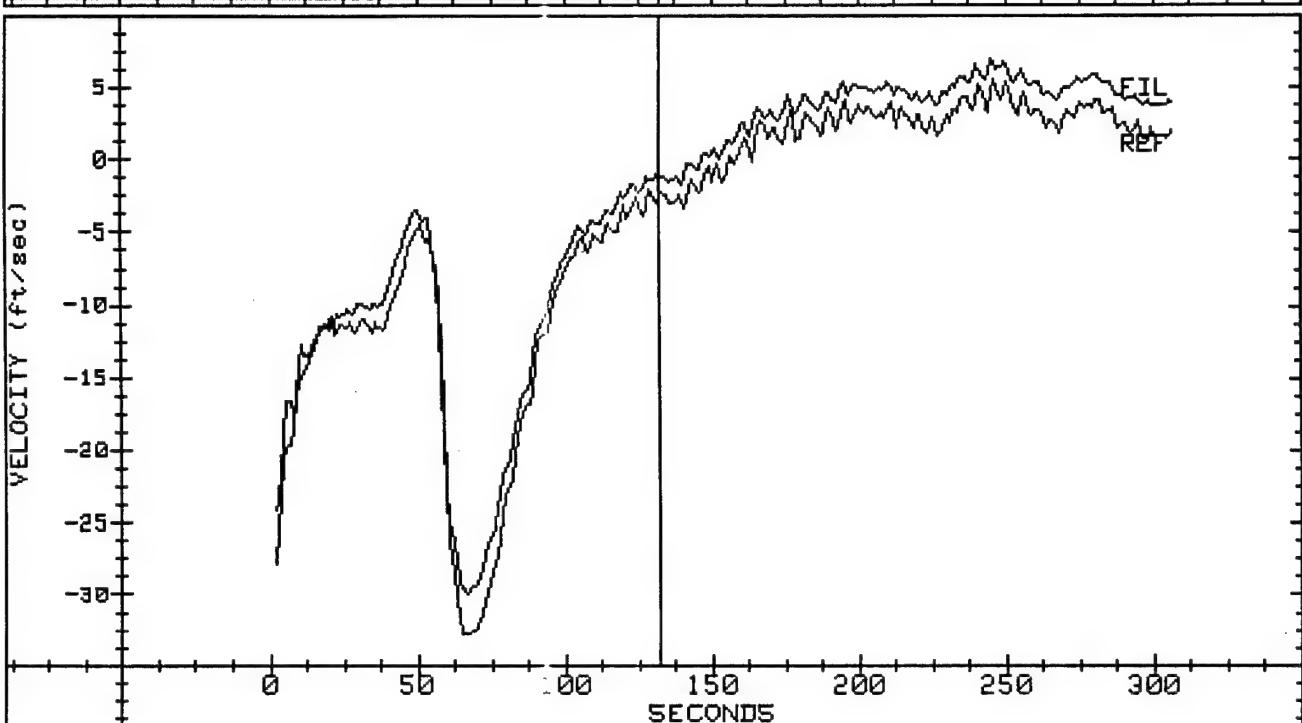
NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 6417 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 7650 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 38.5			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 02:48:26
Y: 1867.0	L: 63.8 dB	End: 02:50:47
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1504441 0016F4B9h	Alt: 0 ft (GPS)
End: 1527940 00175084h	Lat: N 0:00: 0
	Lon: E 0:00: 0

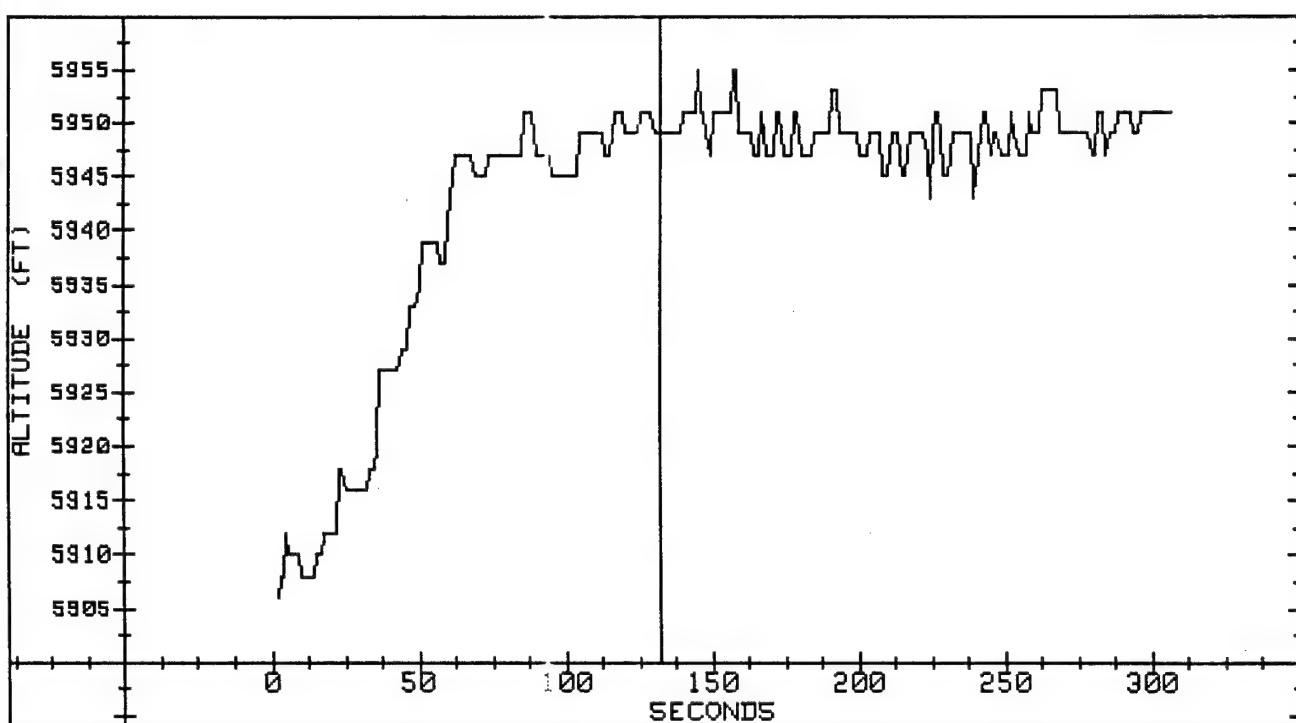
FILTERED vs. REF. VELOCITY
DAY 179 TIME 2:45 PASS 25

IN6
LORAN
GPS



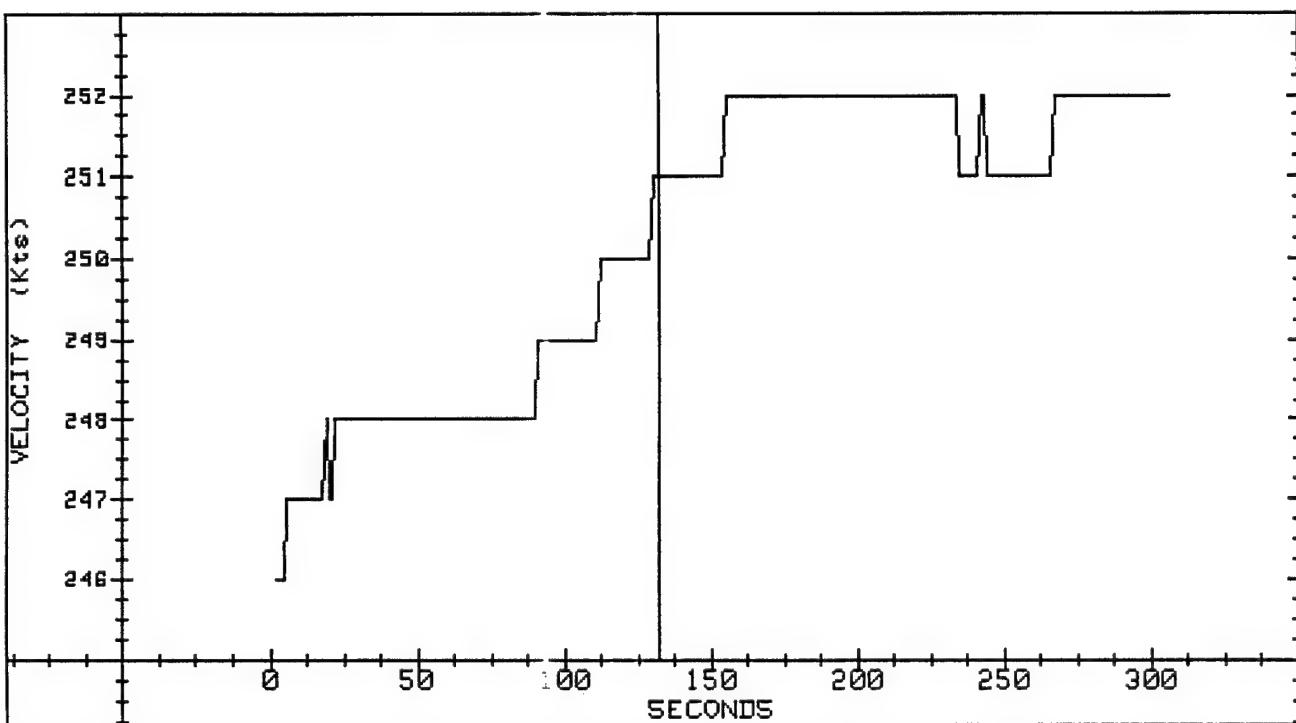
BARO ALTITUDE

DAY 179 TIME 2:45 PASS 25 m- 5949, sd- 2.0994



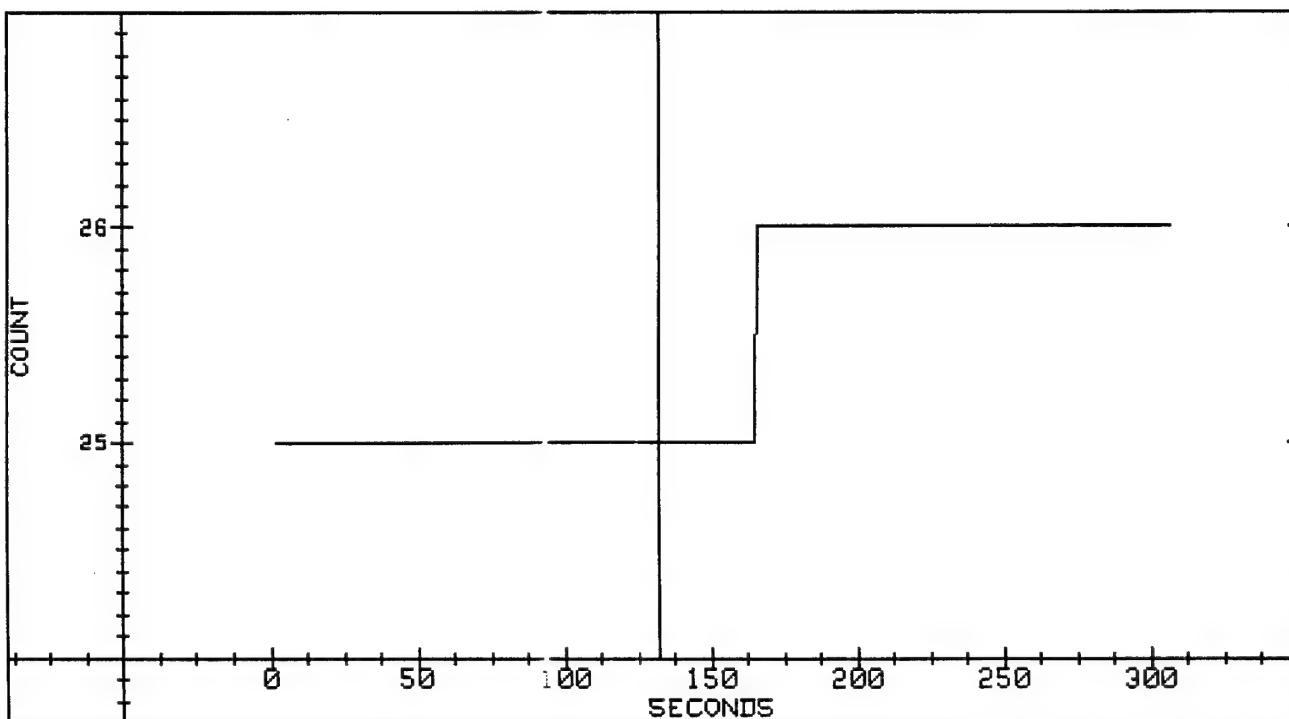
INS GROUND SPEED

DAY 179 TIME 2:45 PASS 25 m- 251.8, sd- .416212



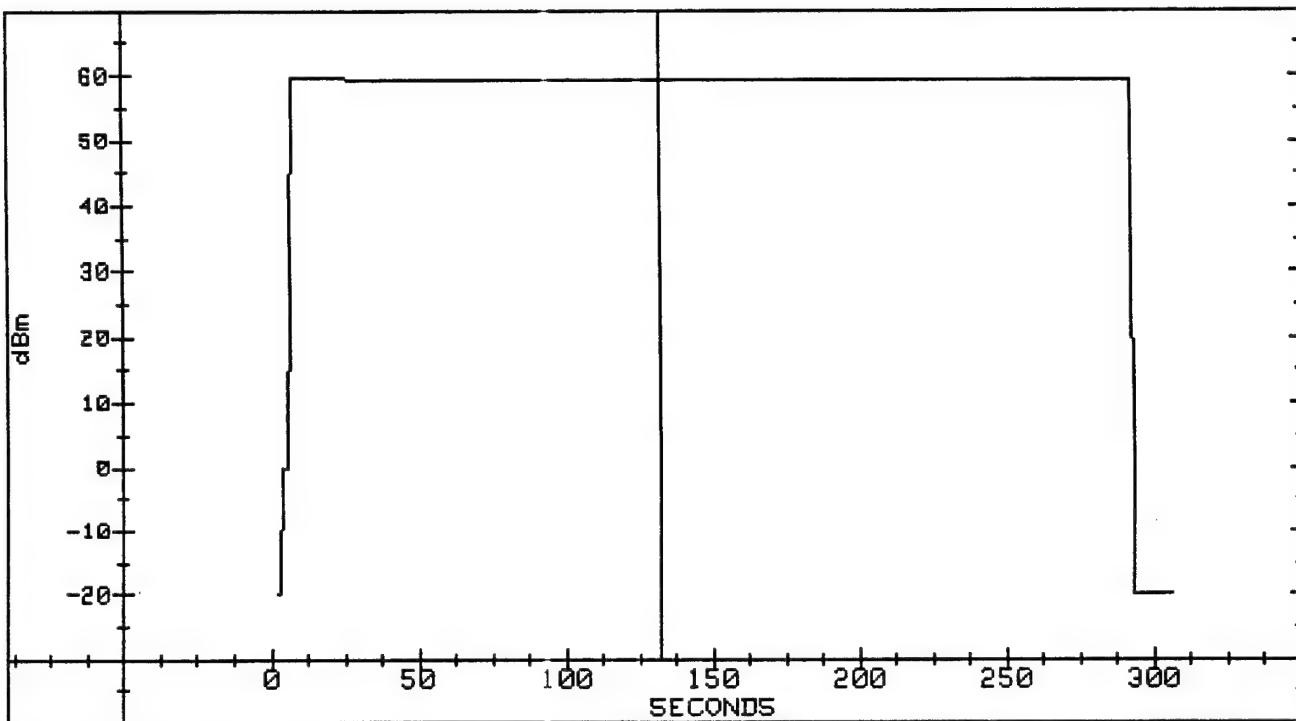
PASS NUMBER

DAY 179 TIME 2:45 PASS 25 $m = 25.9$, $sd = .302531$



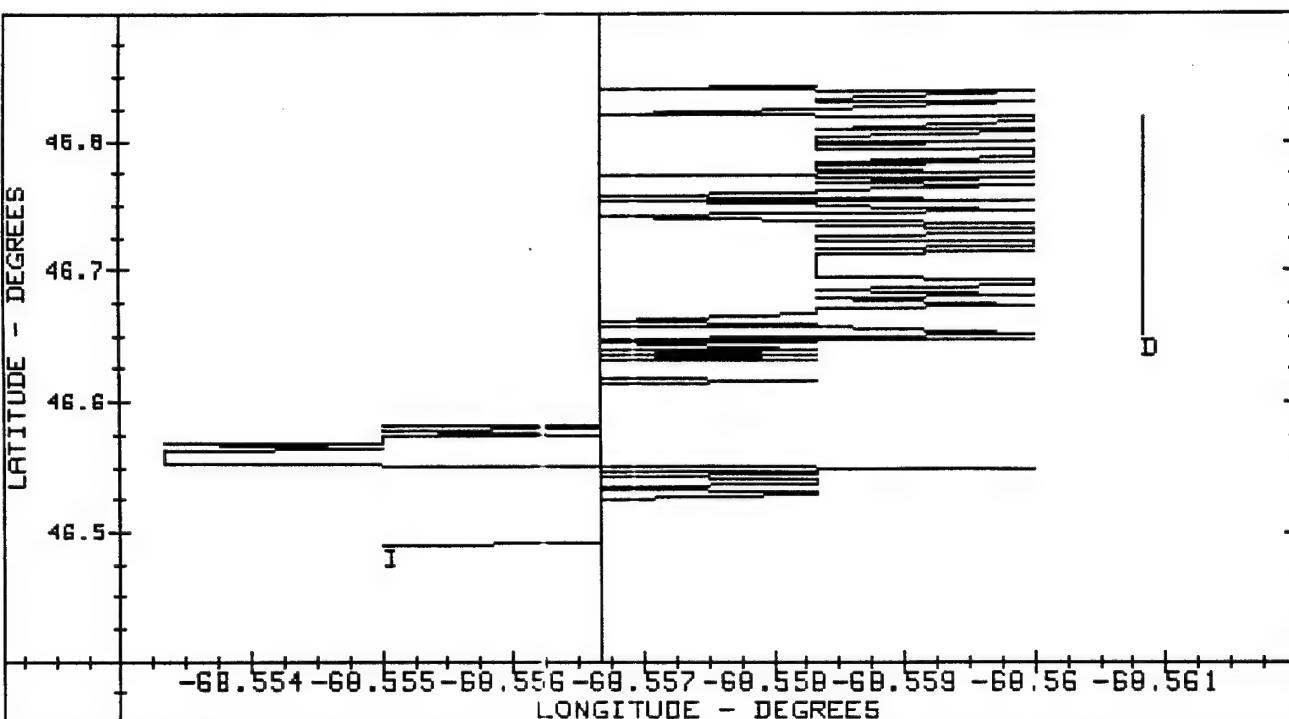
P Band Power

DAY 179 TIME 2:45 PASS 25 m= 52.1, sd= 22.5508



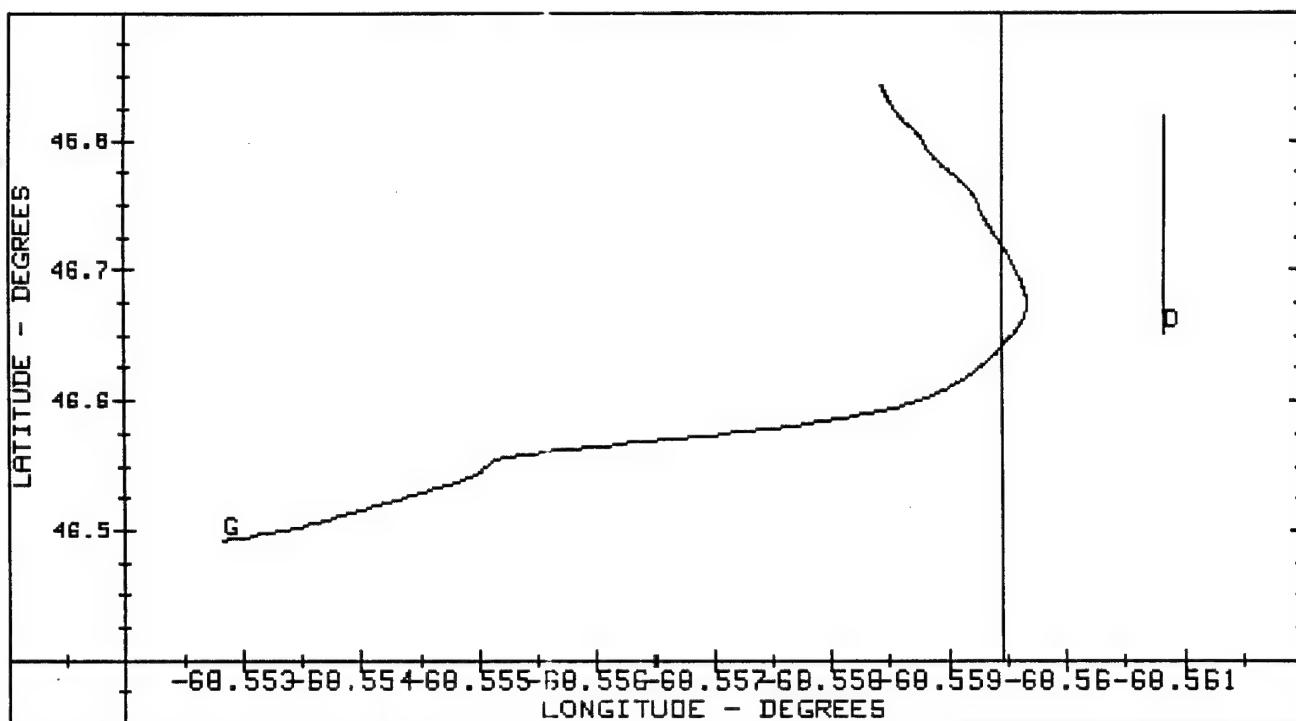
INS AIRCRAFT POSITION

DAY 179 TIME 2:45 PASS 25



GPS AIRCRAFT POSITION

DAY 179 TIME 2:45 PASS 25

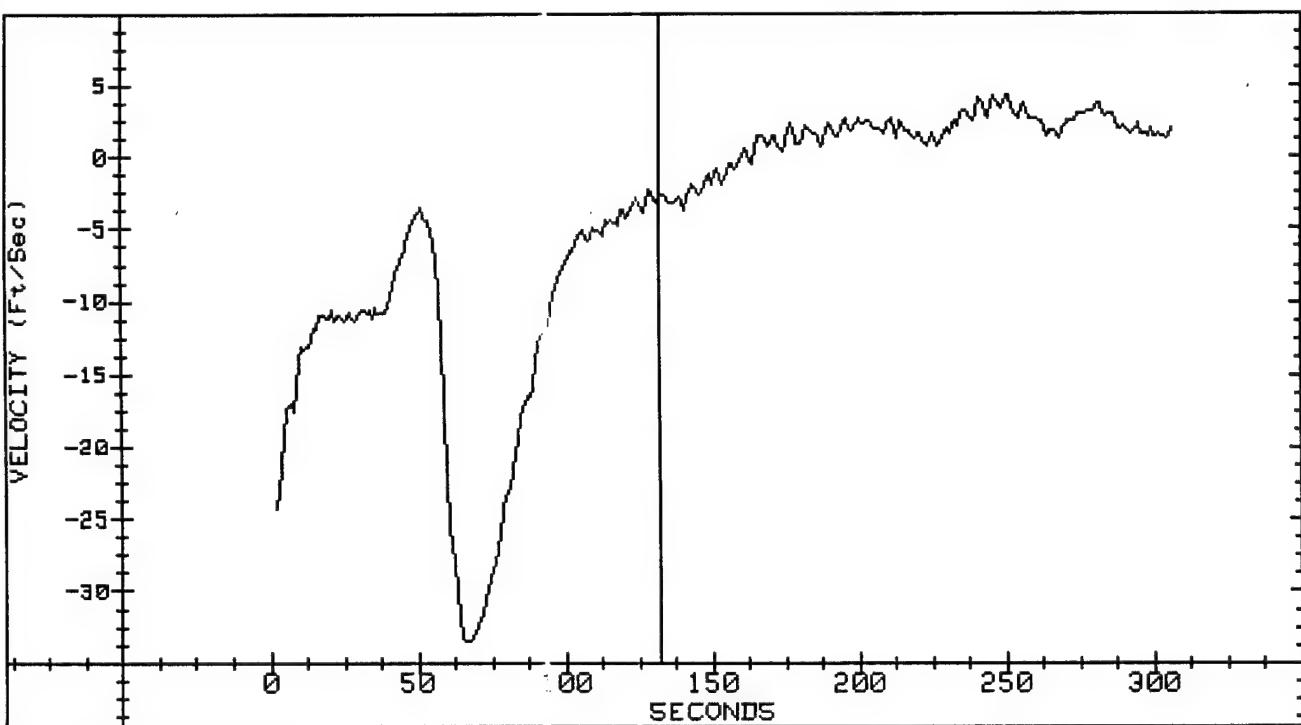


GPS Ve

DAY 179 TIME 2:45

PASS 25

$m = 1.926$, $sd = 1.1989$



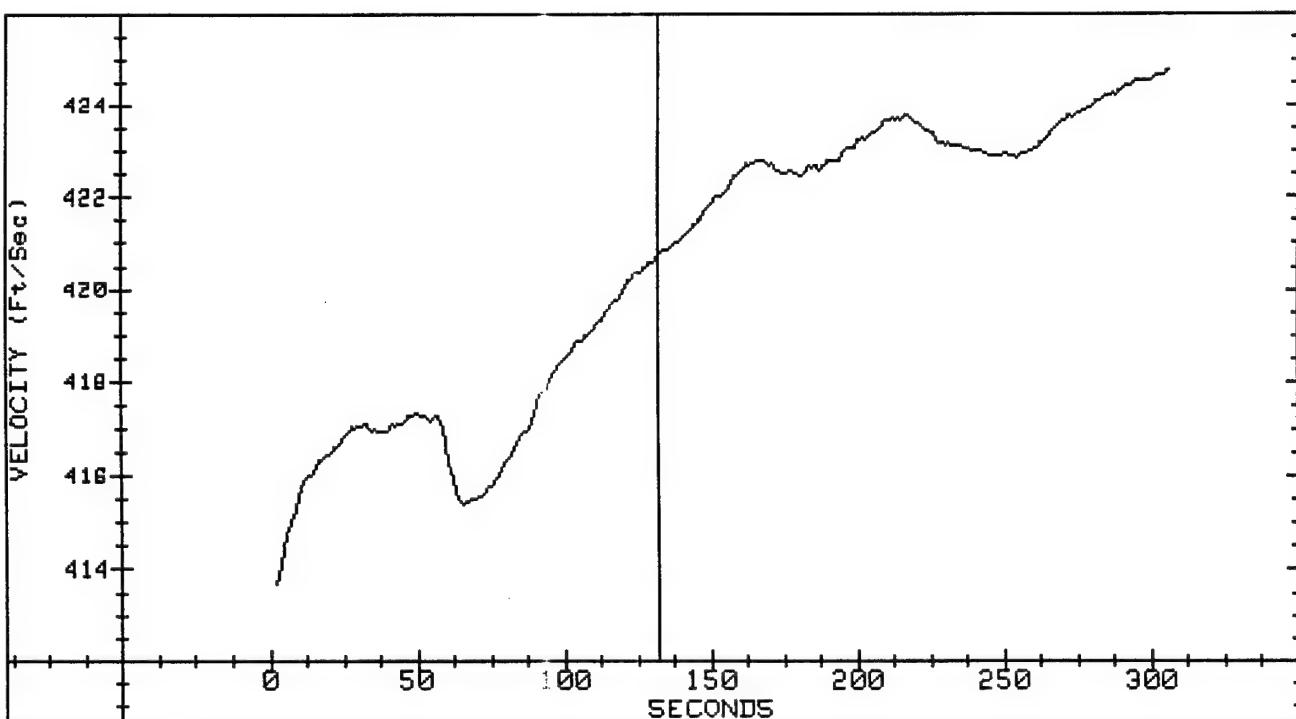
GPS Vn

DRY 179

TIME 2:45

PASS 25

m- 423.3, sd- .682148

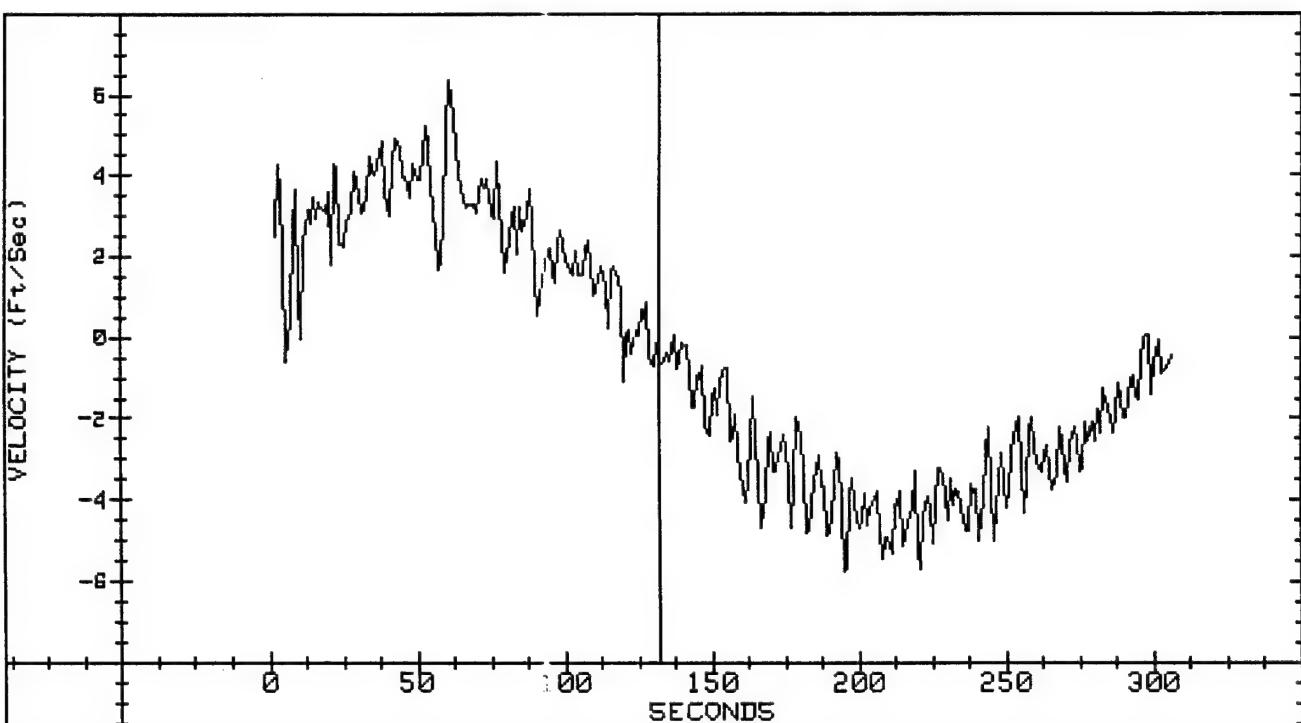


GPS Vv

DAY 179 TIME 2:45

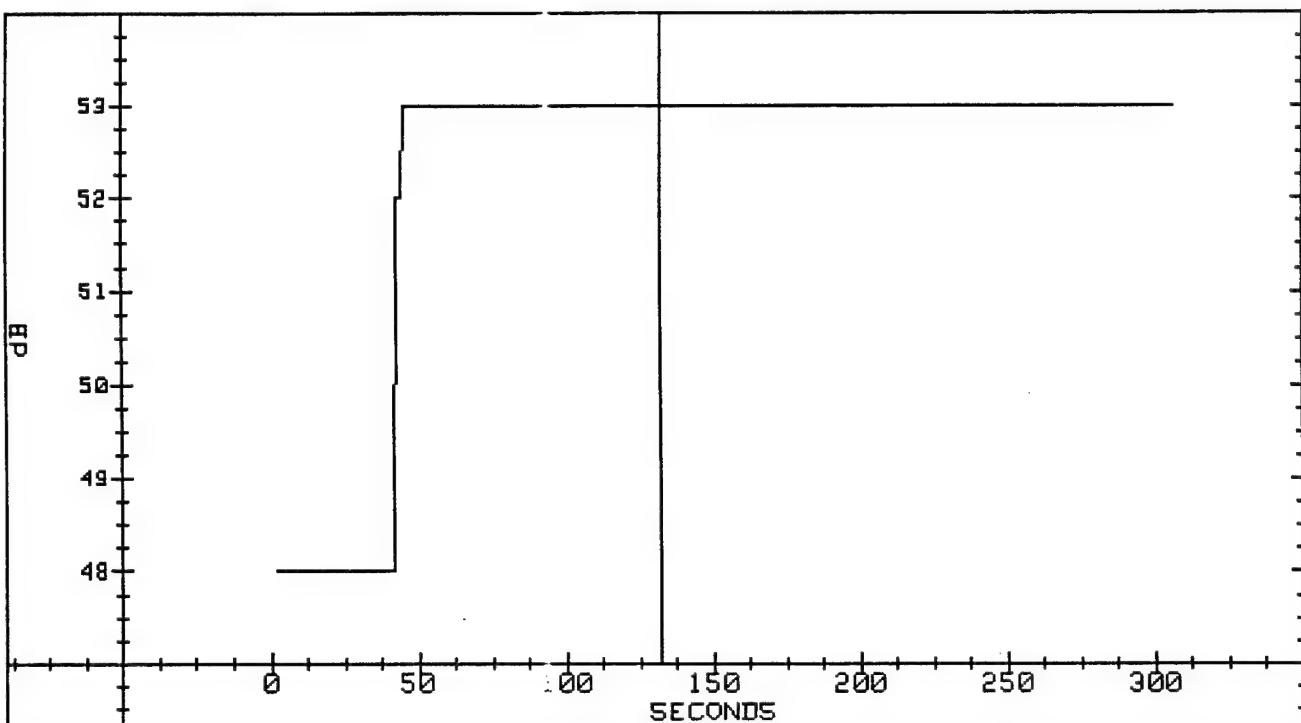
PASS 25

$m = -3.123$, $sd = 1.33041$



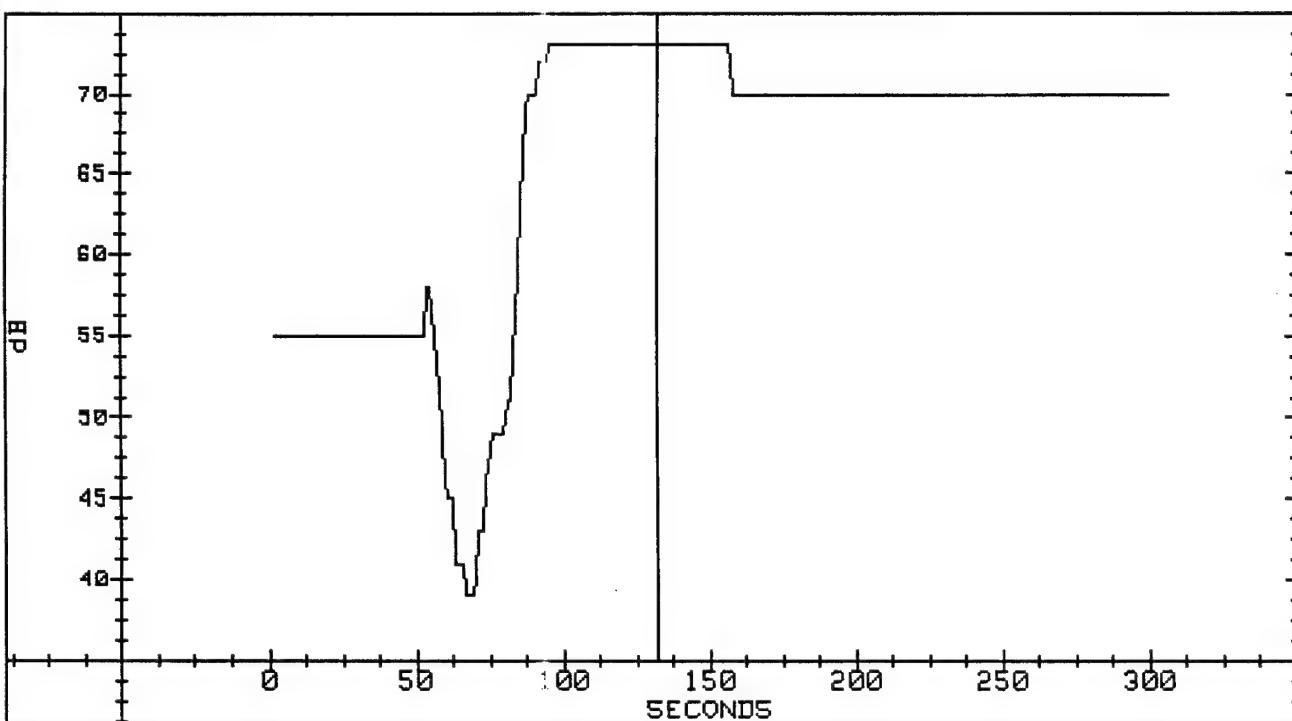
Ch1 RES Attenuation

DAY 179 TIME 2:45 PASS 25 m= 53, sd= 0



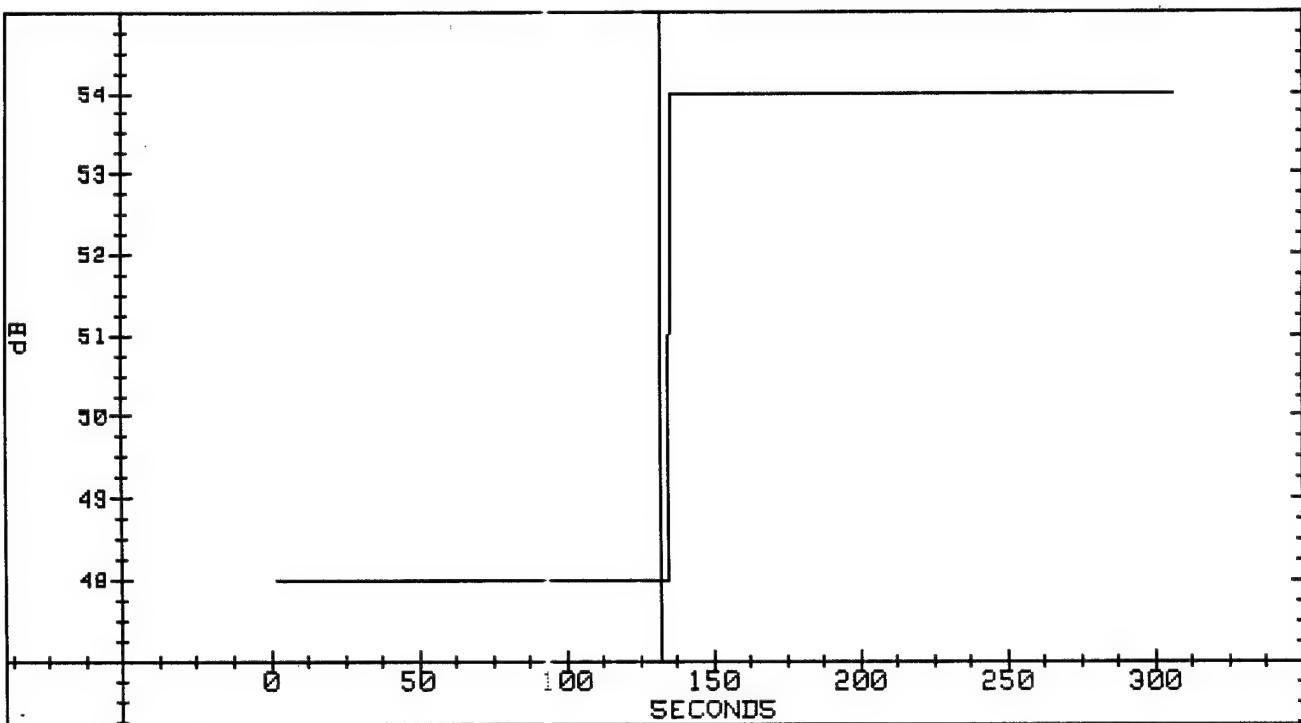
Ch2 RES Attenuation

DAY 179 TIME 2:45 PASS 25 m- 70.15, sd- .636624



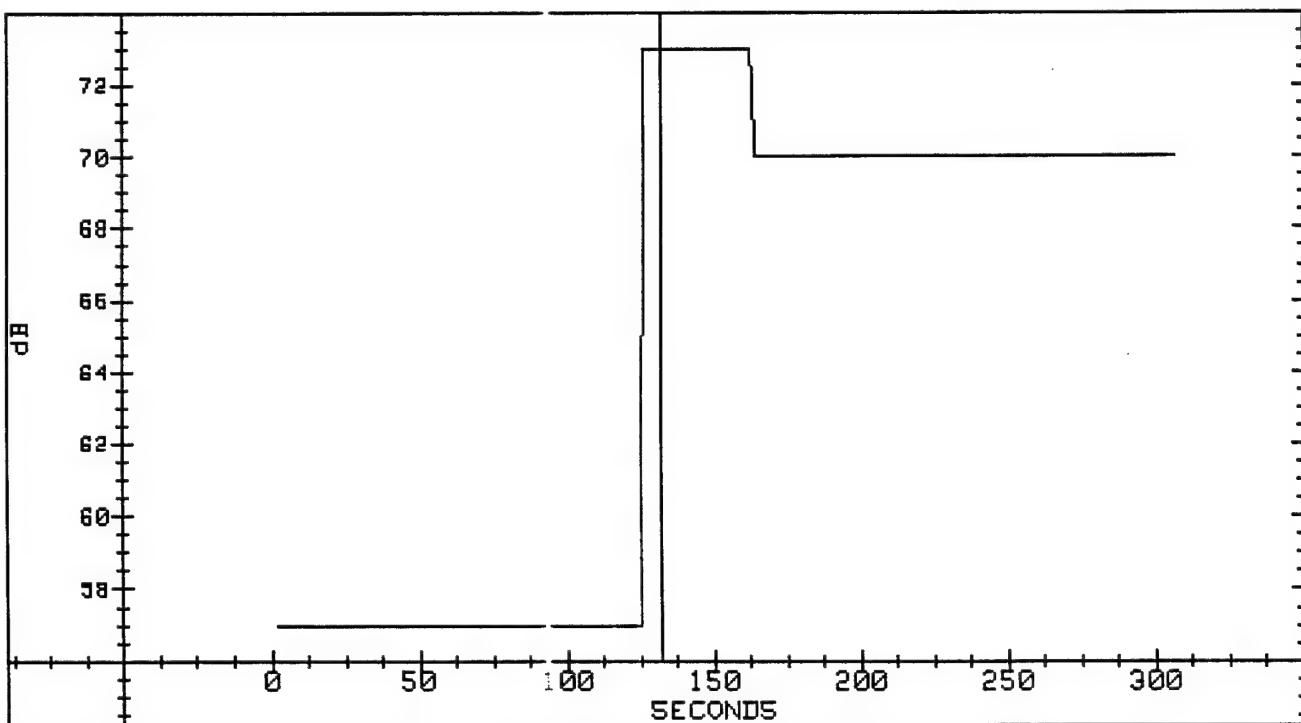
Ch3 RES Attenuation

DAY 179 TIME 2:45 PASS 25 m= 54, sd= 0



Ch4 RES Attenuation

DAY 179 TIME 2:45 PASS 25 m= 70.26, sd= .038155



GPS ALTITUDE

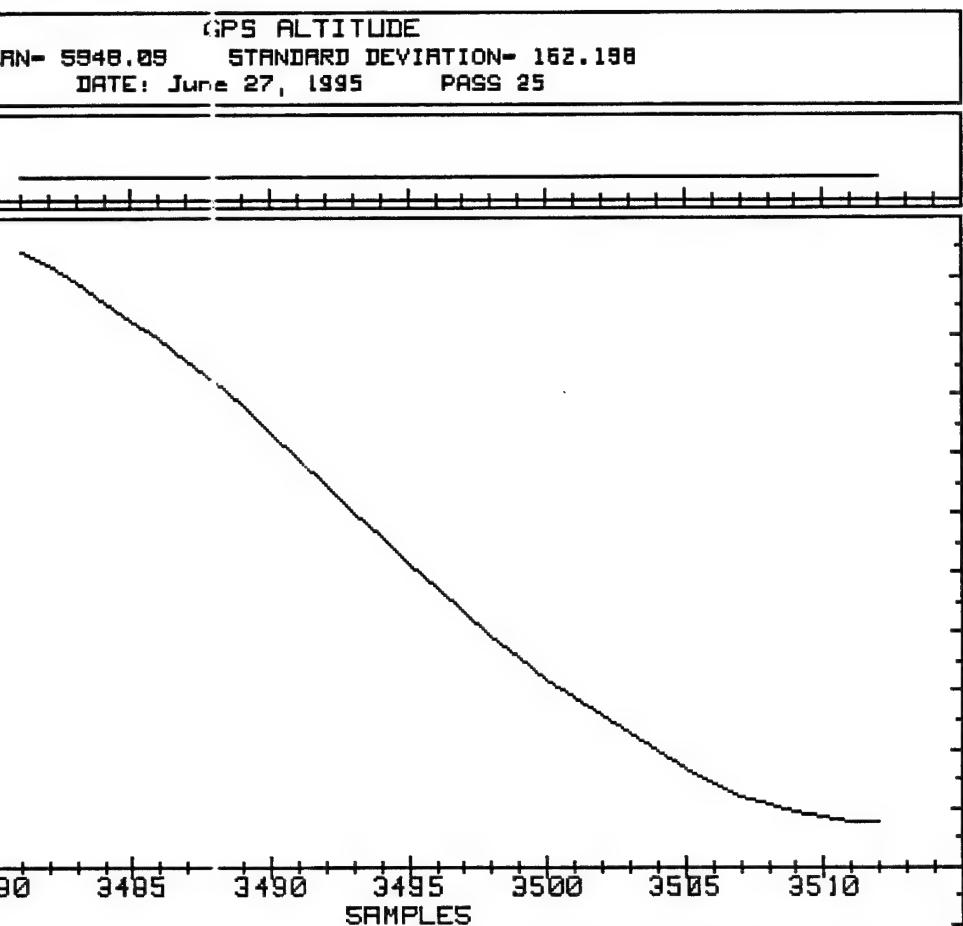
MERN- 5948.09 STANDARD DEVIATION- 162.198
DATE: June 27, 1995 PASS 25

OFF
ON
IRR

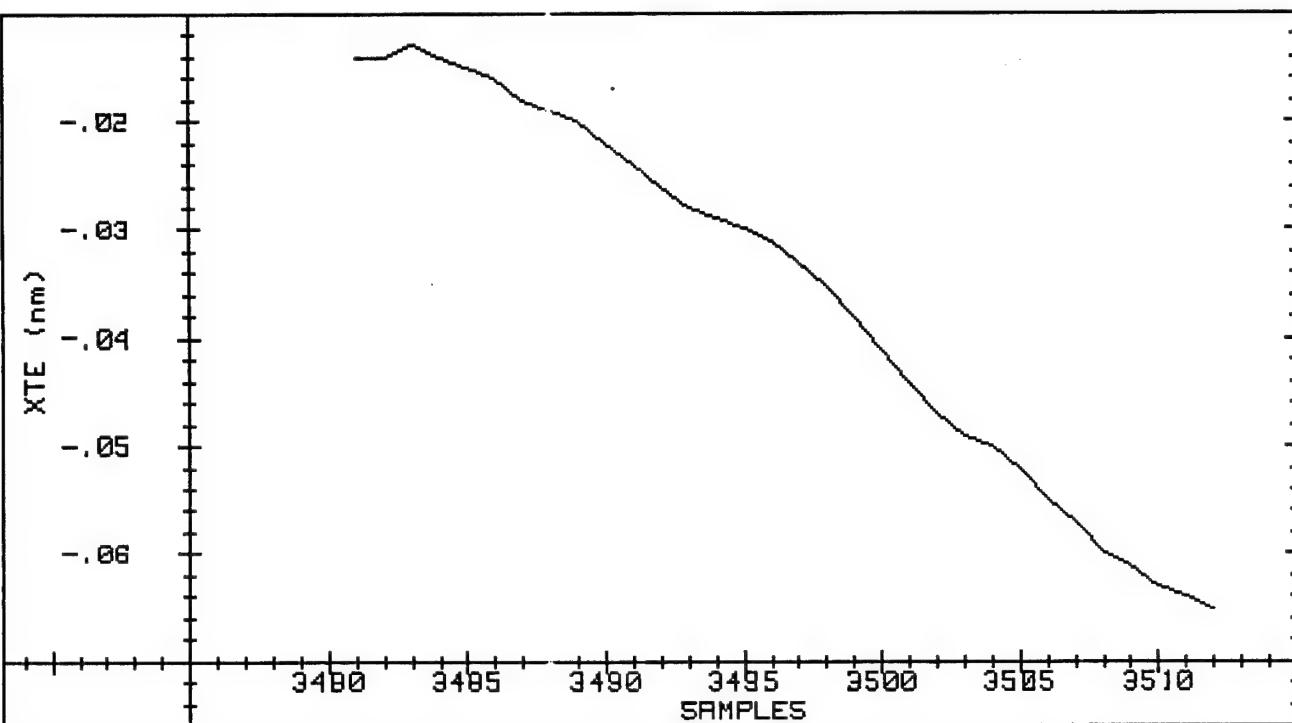
6200
6150
6100
6050
6000
5950
5900
5850
5800
5750
FEET

3480 3485 3490 3495 3500 3505 3510

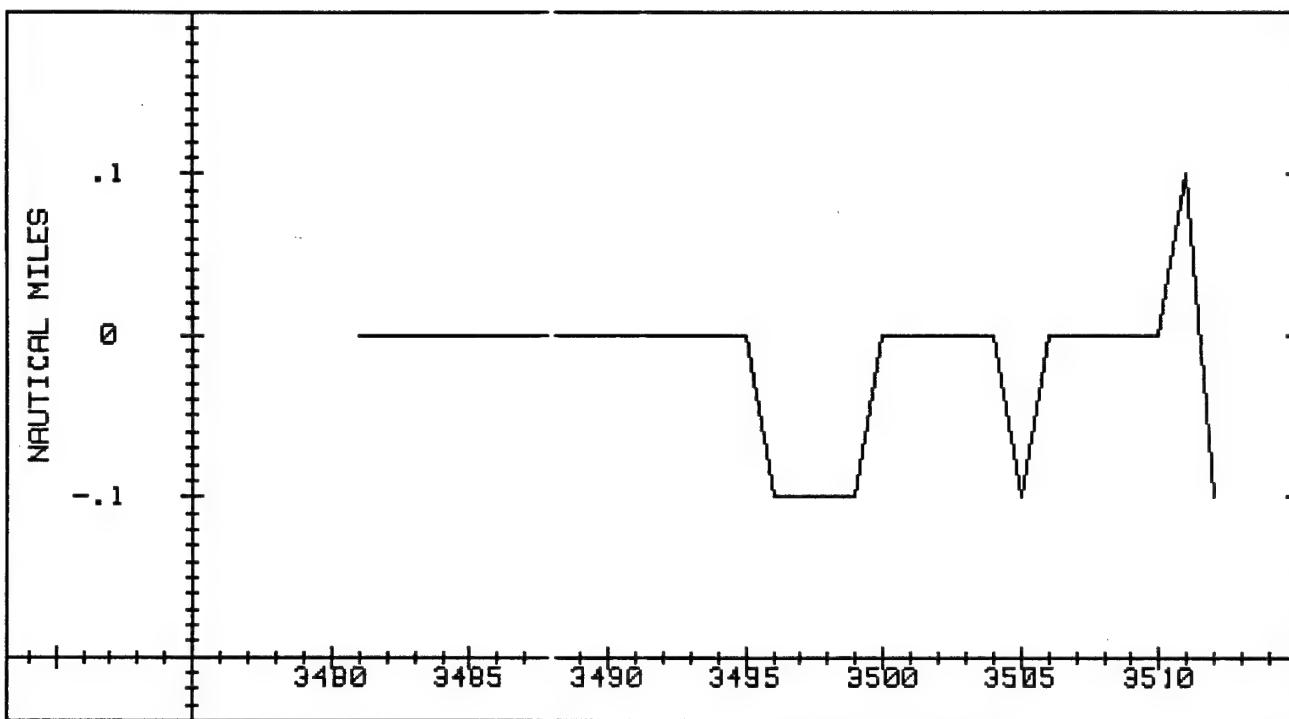
SAMPLES



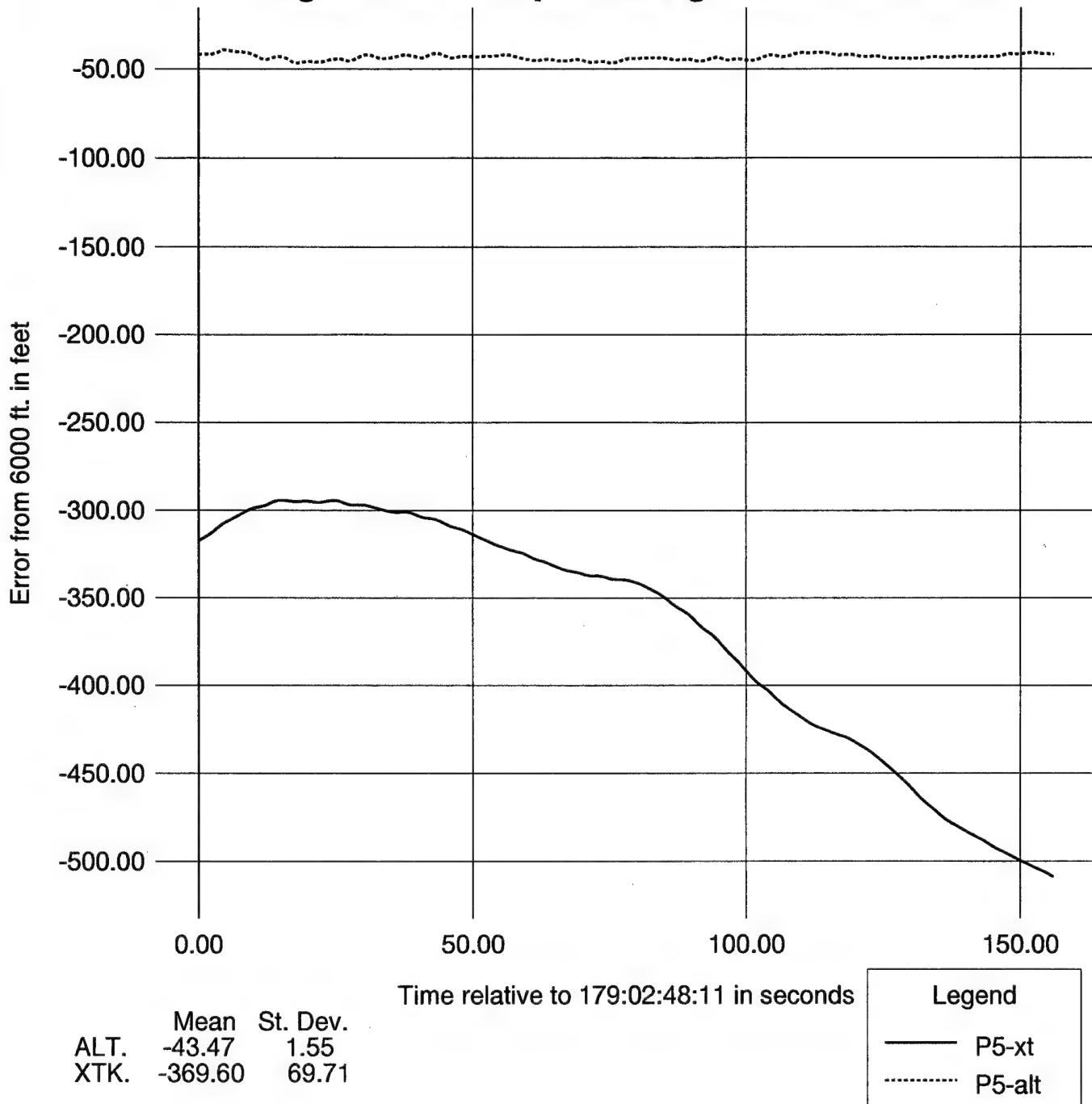
GPS Cross Track Error
MEAN= -.0358438 STANDARD DEVIATION= .0172357
DATE: June 27, 1995 PASS 25



INS CROSS TRACK ERROR
MEAN= -.015625 STANDARD DEVIATION= .0440835
DATE: June 27, 1995 PASS 25



**Portage, ME - June 27, 1995 - Pass 25 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero**



28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 45
Mission: Presque Isle DAY 3

Time: 179:03:02:38
Pass 27
Req. # 24

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5957 ft s.d. =	3 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	270.0°	Far Rng Dep:	9.9°	9.9°	9.9°	9.9°
Start Sq:	90.0°	Atten (dB):	58.0	62.0	58.0	62.0
End Sq:	90.0°	RMS Video (%FS)	9.8	9.4	7.7	10.6

WAYPOINTS

Line_up:	Latitude	Longitude	Main Target: IE
	N 46:40.86	W 68:04.28	Mocomp Point:
Start:	N 46:40.90	W 68:21.71	Lat: N 46:44.12
End:	N 46:40.90	W 68:36.25	Long: W 68:28.98
From:	N 44:12.15	W 44:58.97	Tgt Trk: 0.0 Tgt Vel: 0.0
To:	N 44:12.15	W 91:58.99	Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTL1U2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 250.2 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1NOA

Ave Ref Vel -> -1.8 fps (s.d.= .9)
Ave Fil Vel -> -.4 fps (s.d.= .7)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 7665 ft	(1)
L: -70.0	Azimuth: 0.0°	Ending: 8917 ft	(1)
C: -70.0	Pitch: 0.0°		
P: 39.8			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 03:02:38
Y: 1867.0	L: 63.8 dB	End: 03:05:17
Z: 17142.0	C: 63.8 dB	

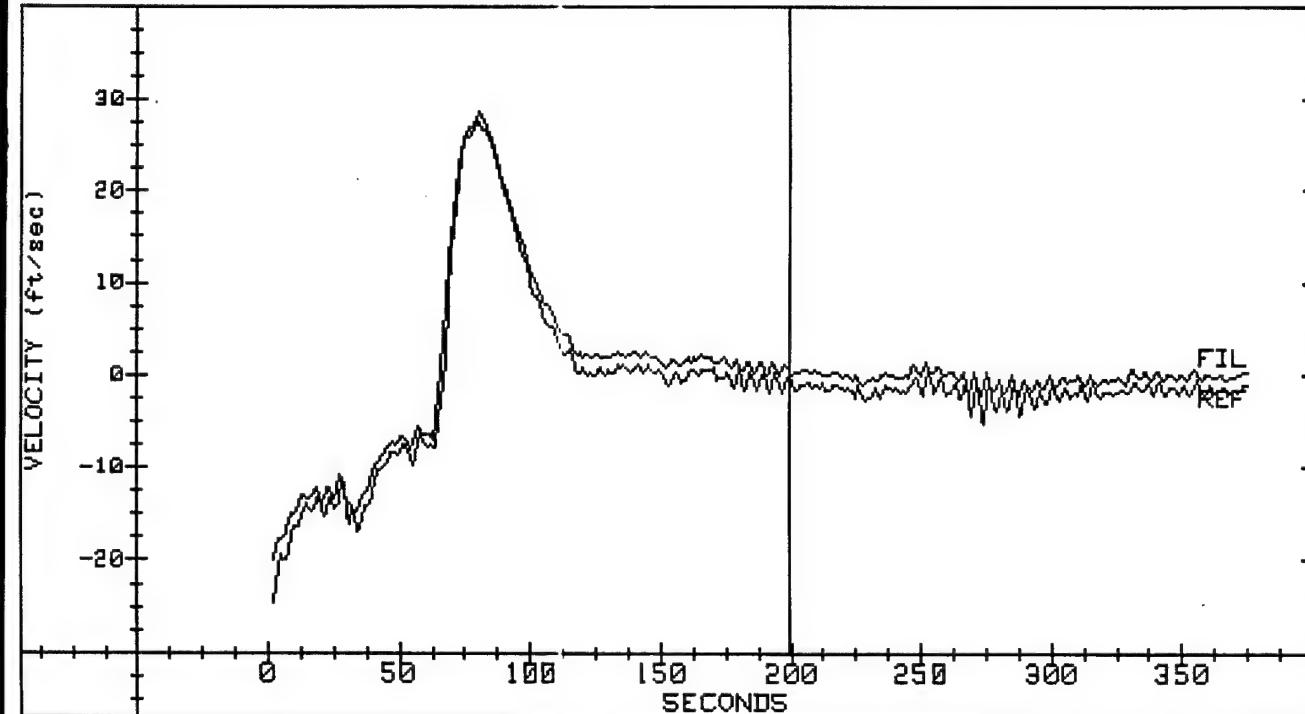
Mocomp Counters

Start: 1564287 0017DE7Fh
End: 1590796 0018460Ch

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

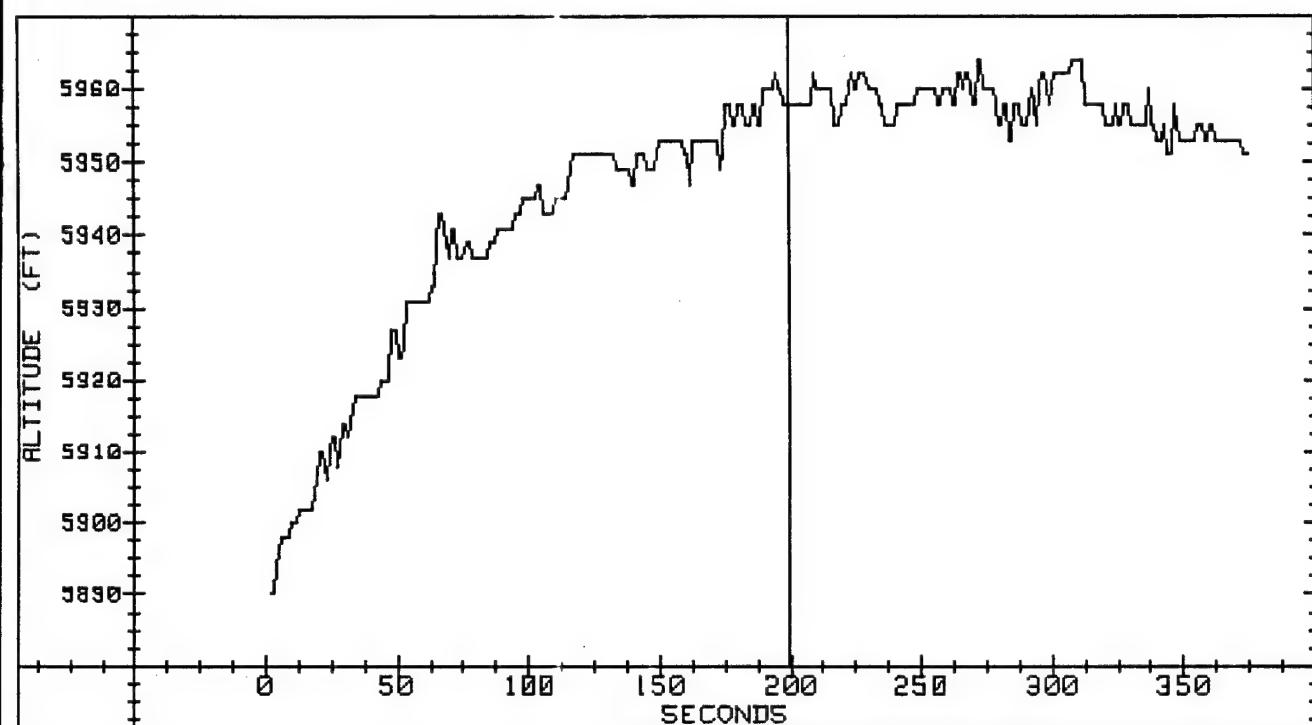
FILTERED vs. REF. VELOCITY

INS-
LORAH-
CPG-



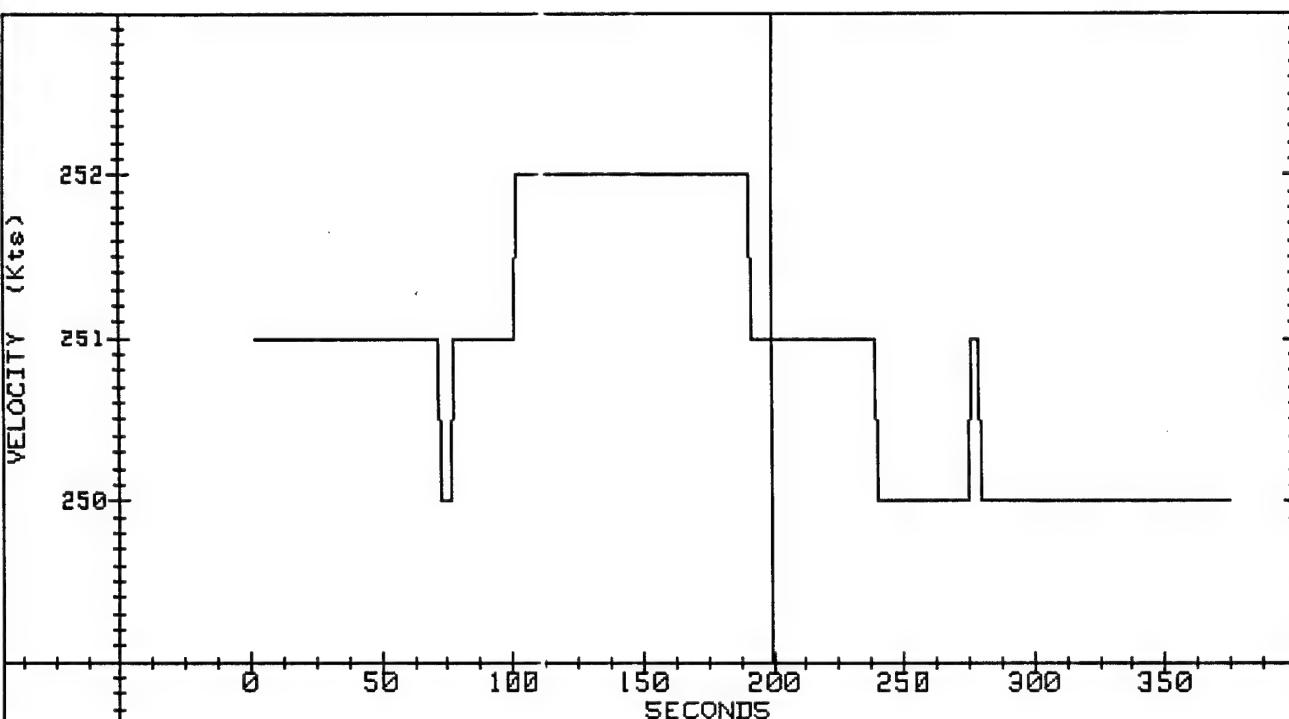
BARO ALTITUDE

DAY 179 TIME 2:59 PASS 27 m= 5957, sd= 3.35086



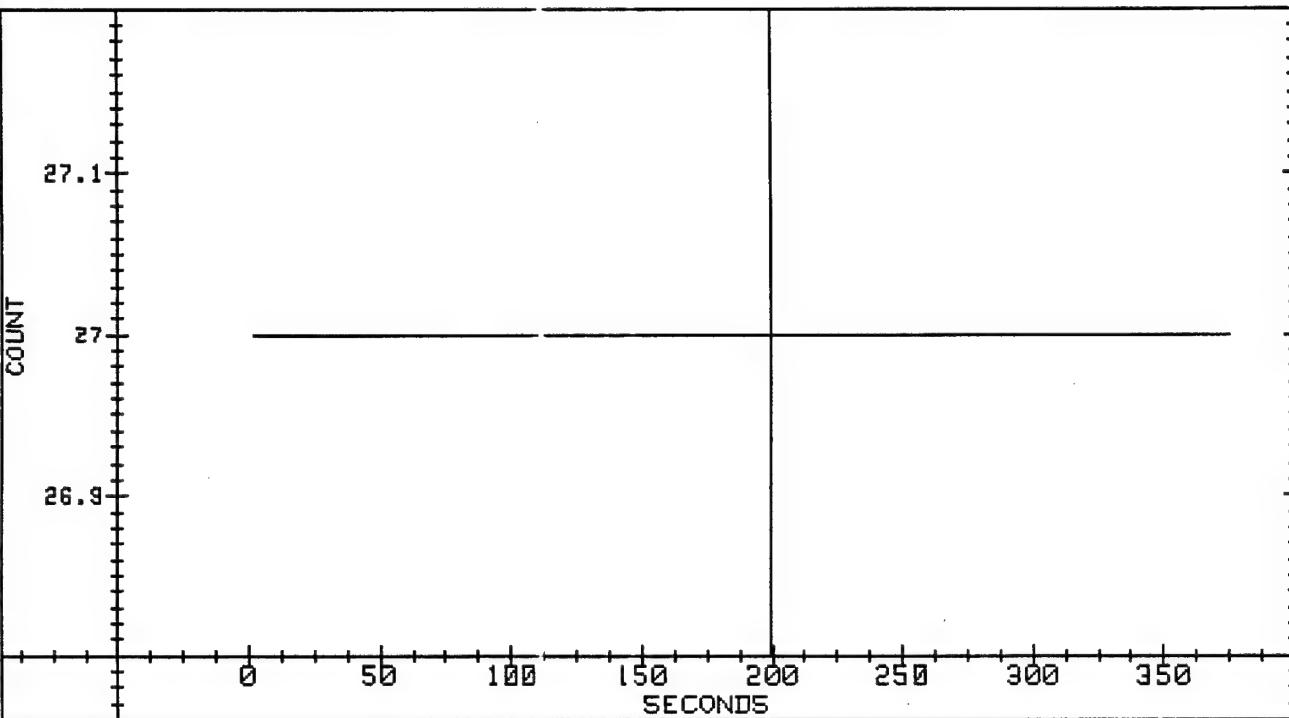
INS GROUND SPEED

DAY 179 TIME 2:59 PRSS 27 m- 250.2, sd- .375467



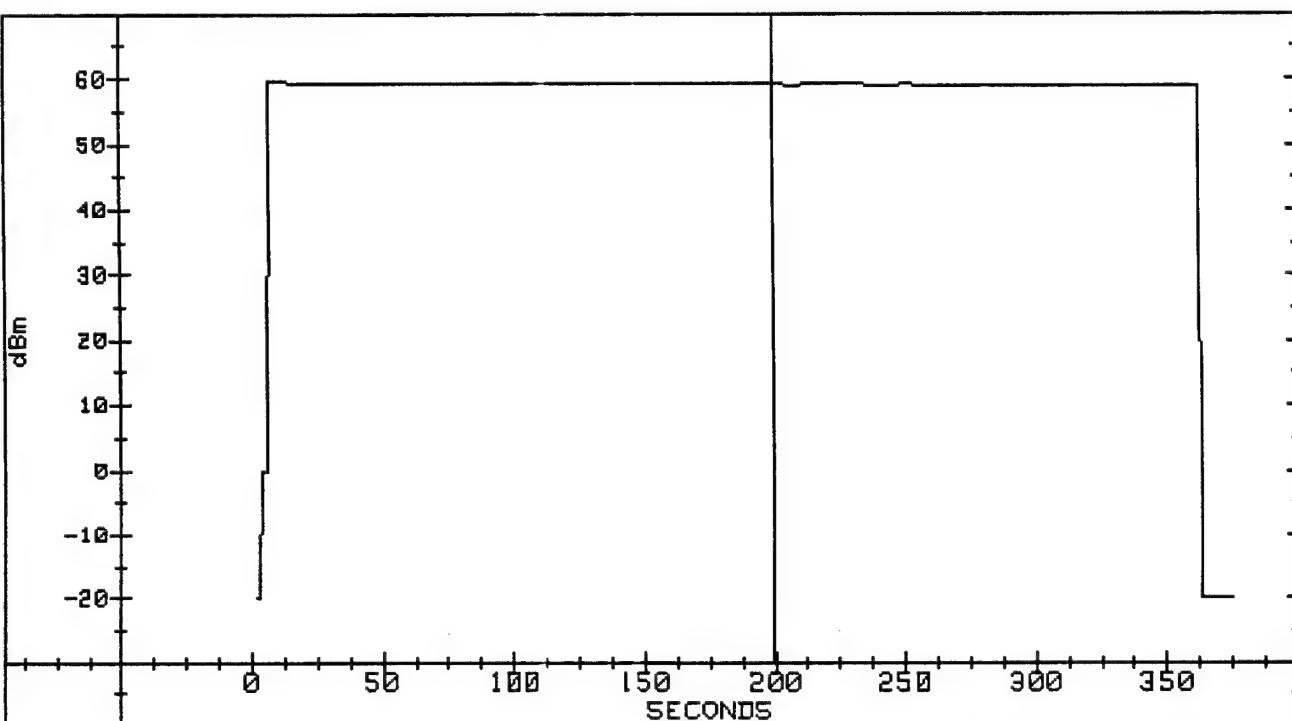
PASS NUMBER

DAY 179 TIME 2:59 PASS 27 m- 27, sd- 0



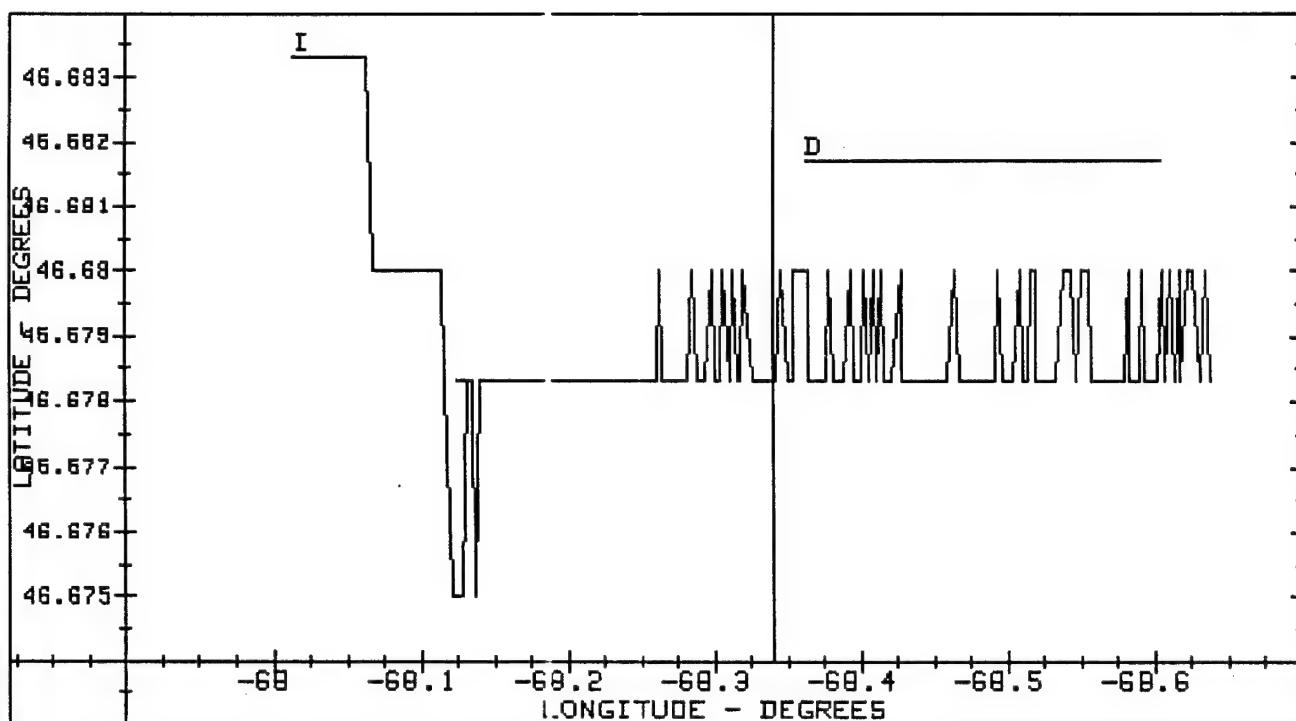
P Band Power

DAY 179 TIME 2:59 PRSS 27 m- 52.55, sd- 21.6494



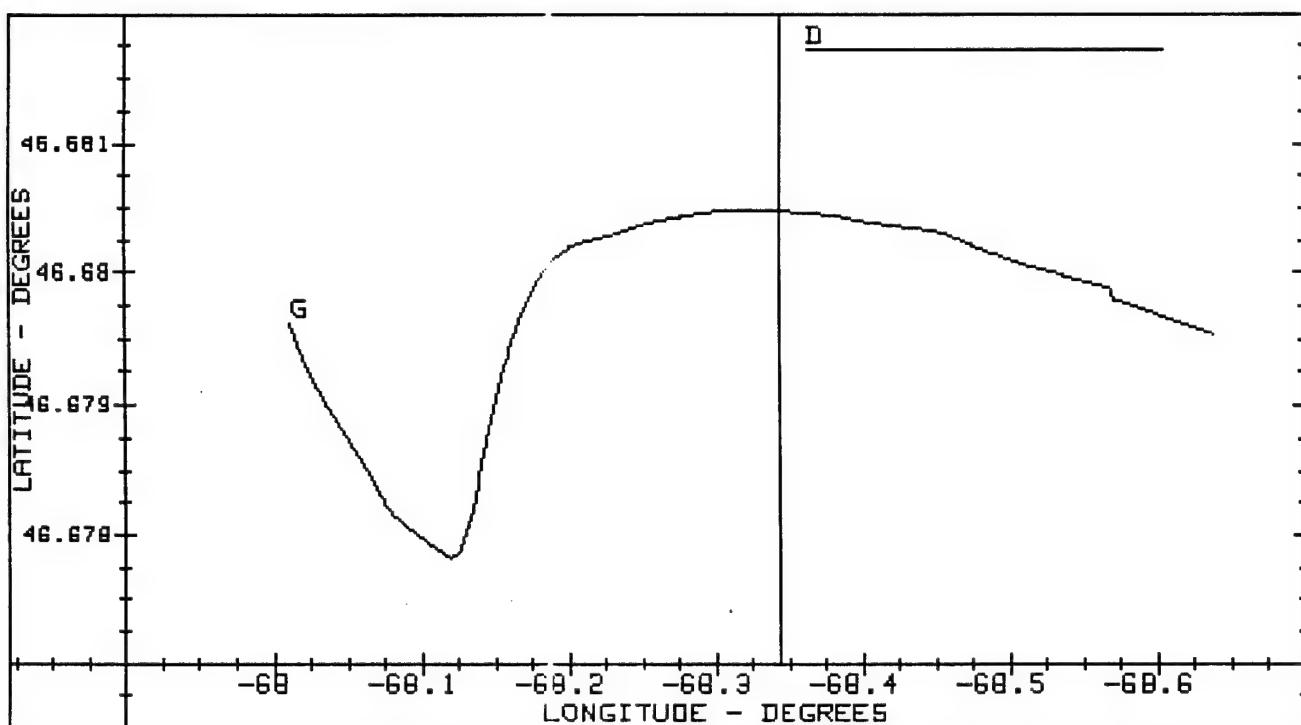
INS AIRCRAFT POSITION

DAY 179 TIME 2:59 PASS 27



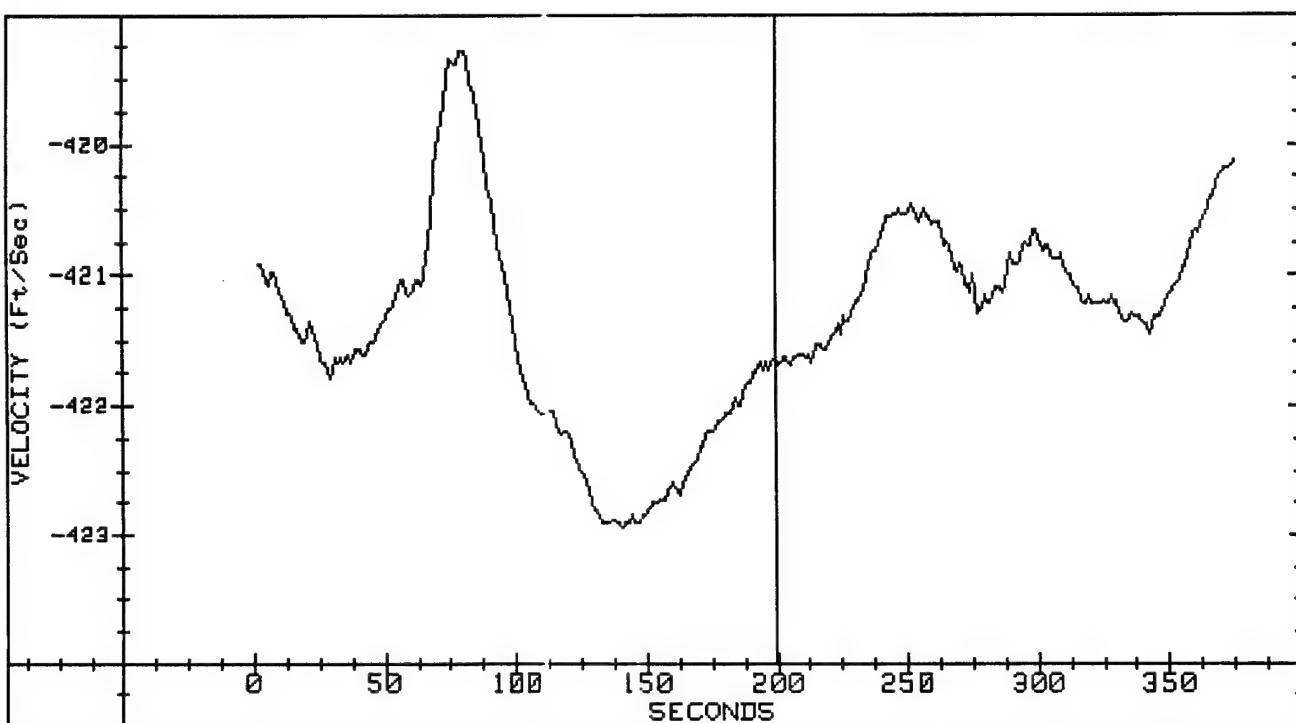
GPS AIRCRAFT POSITION

DAY 179 TIME 2:59 PASS 27



GPS V_E

DAY 179 TIME 2:59 PASS 27 m= -420.9, sd= .337767

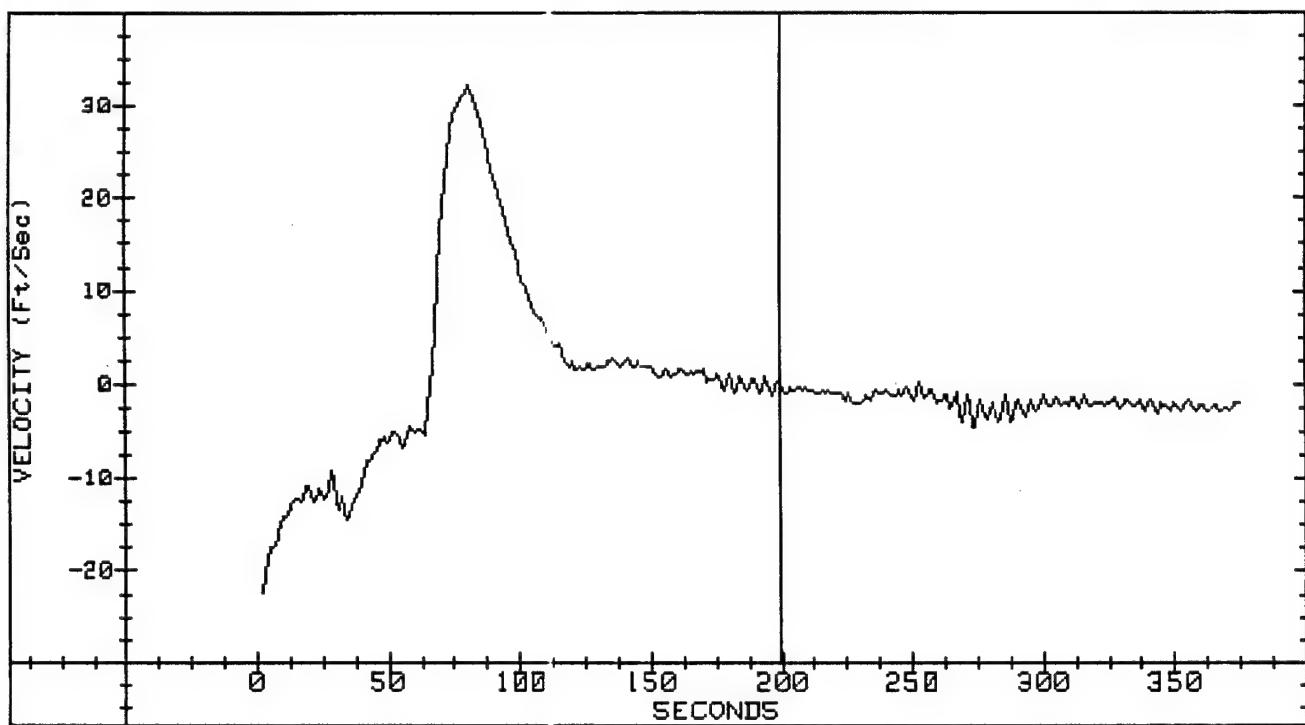


GPS Vn

DAY 179 TIME 2:59

PASS 27

m= -1.922, sd= .83606



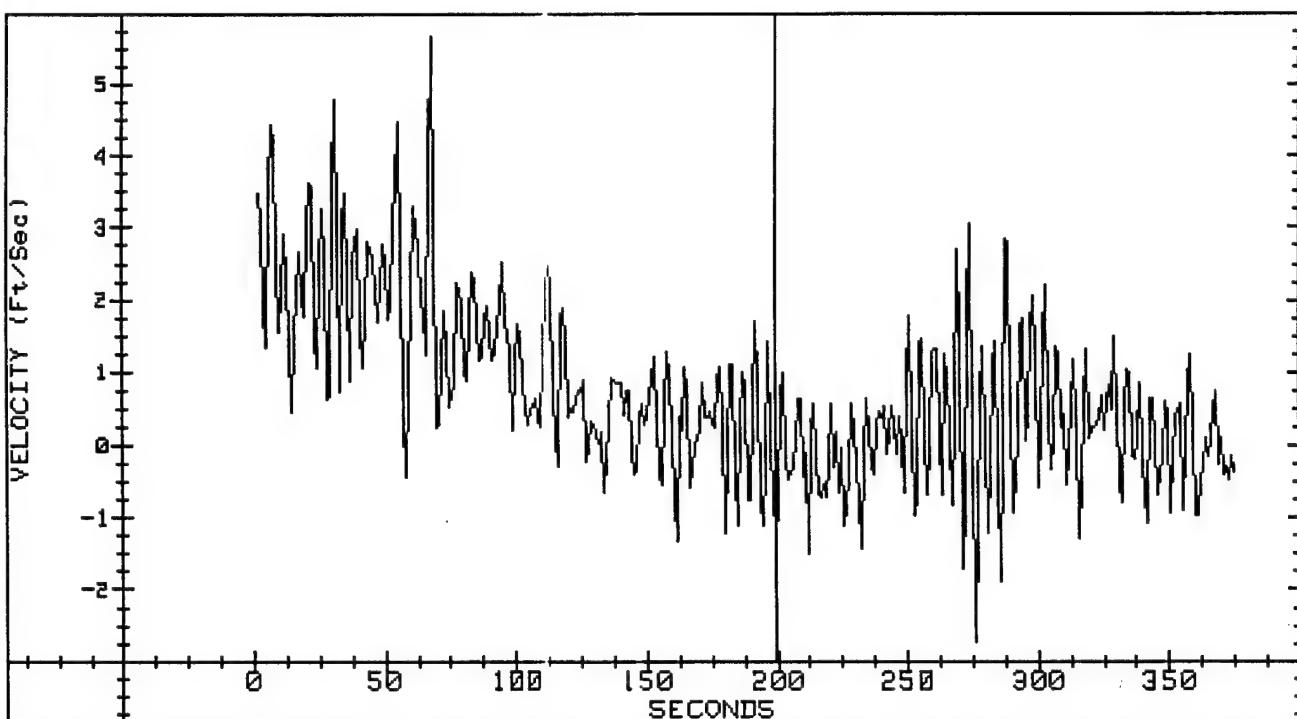
GPS Vv

DAY 179

TIME 2:59

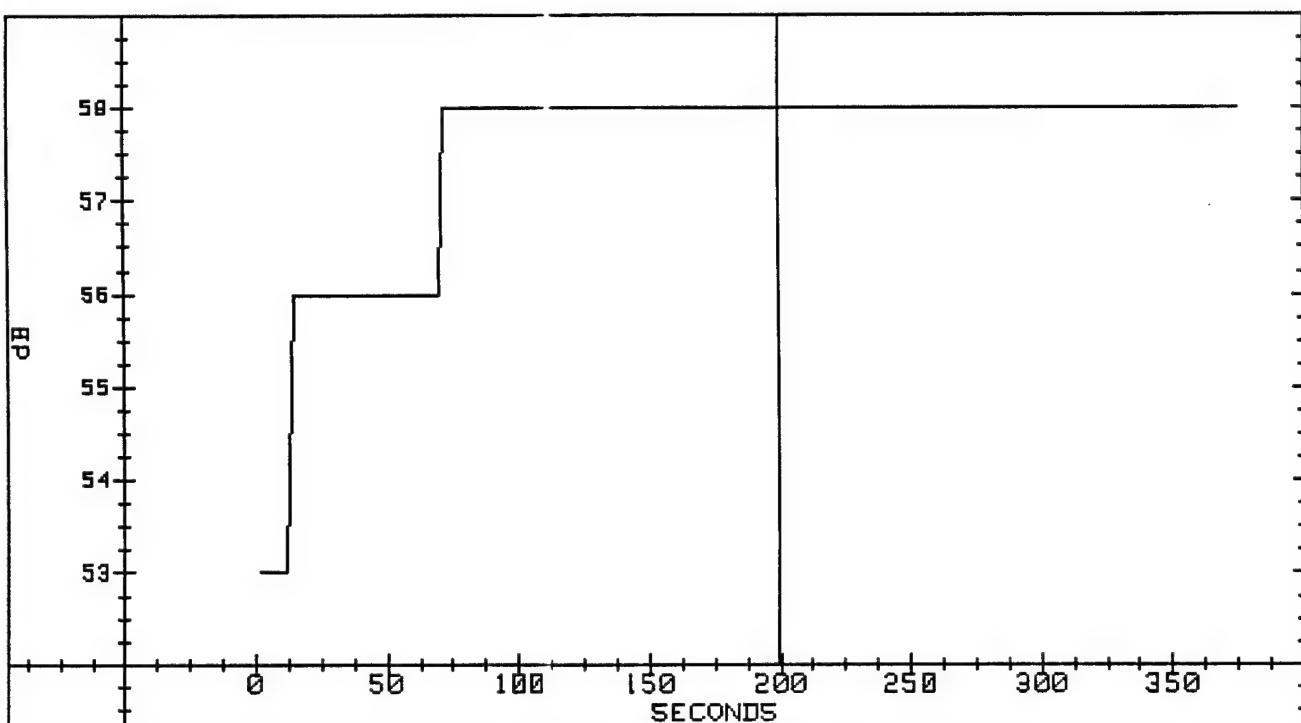
PASS 27

m- .2159, sd- .913576



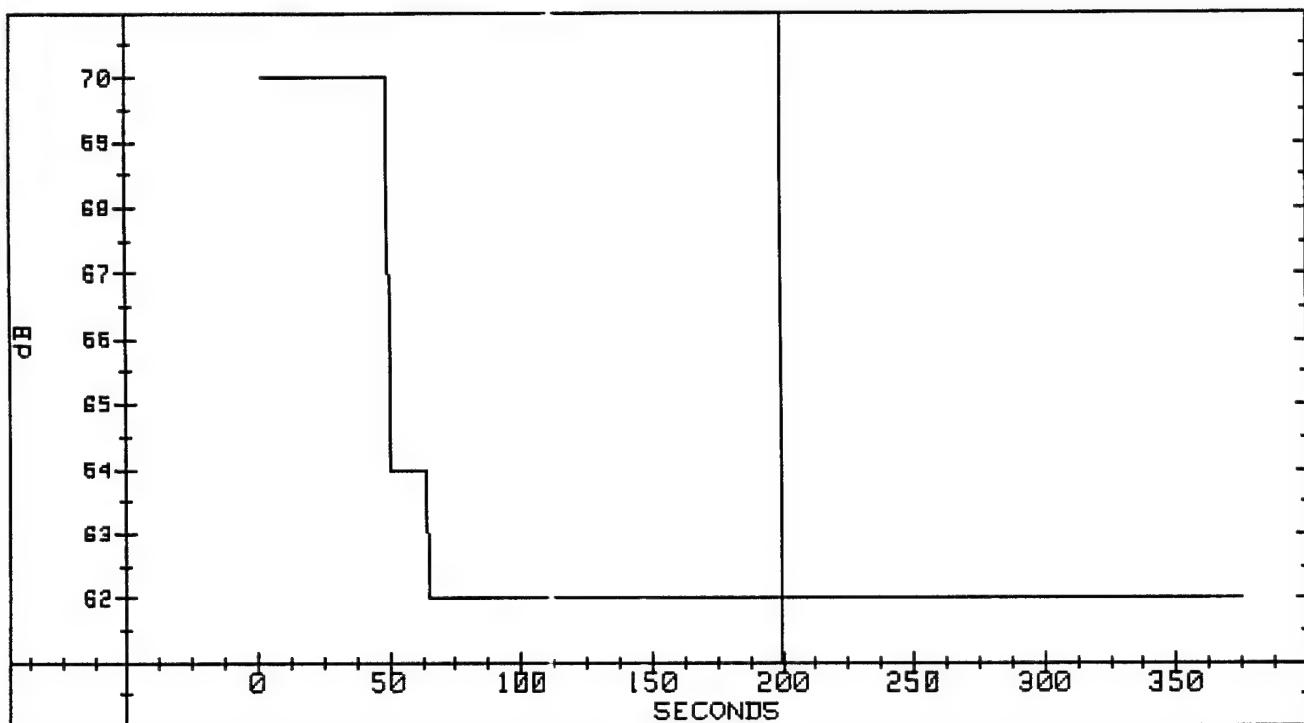
Ch1 RES Attenuation

DAY 179 TIME 2:59 PASS 27 m= 58, sd= 0



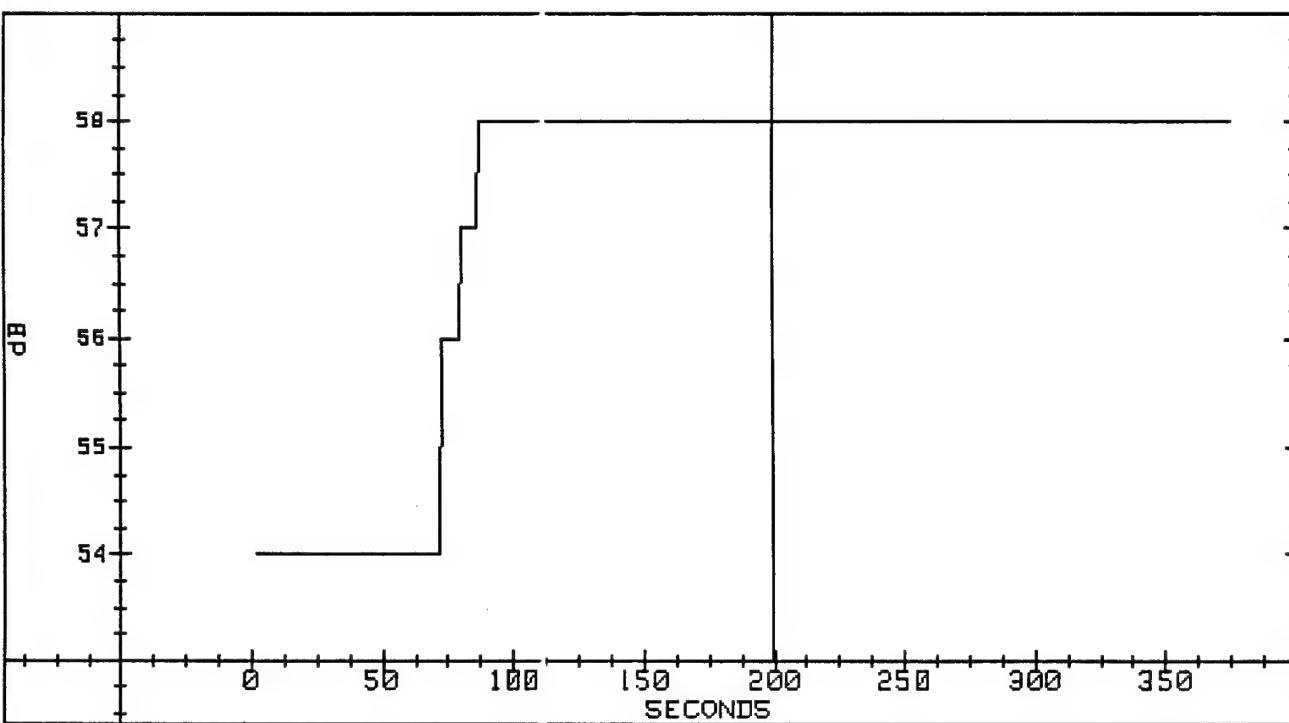
Ch2 RES Attenuation

DAY 179 TIME 2:59 PASS 27 m= 62, sd= 0



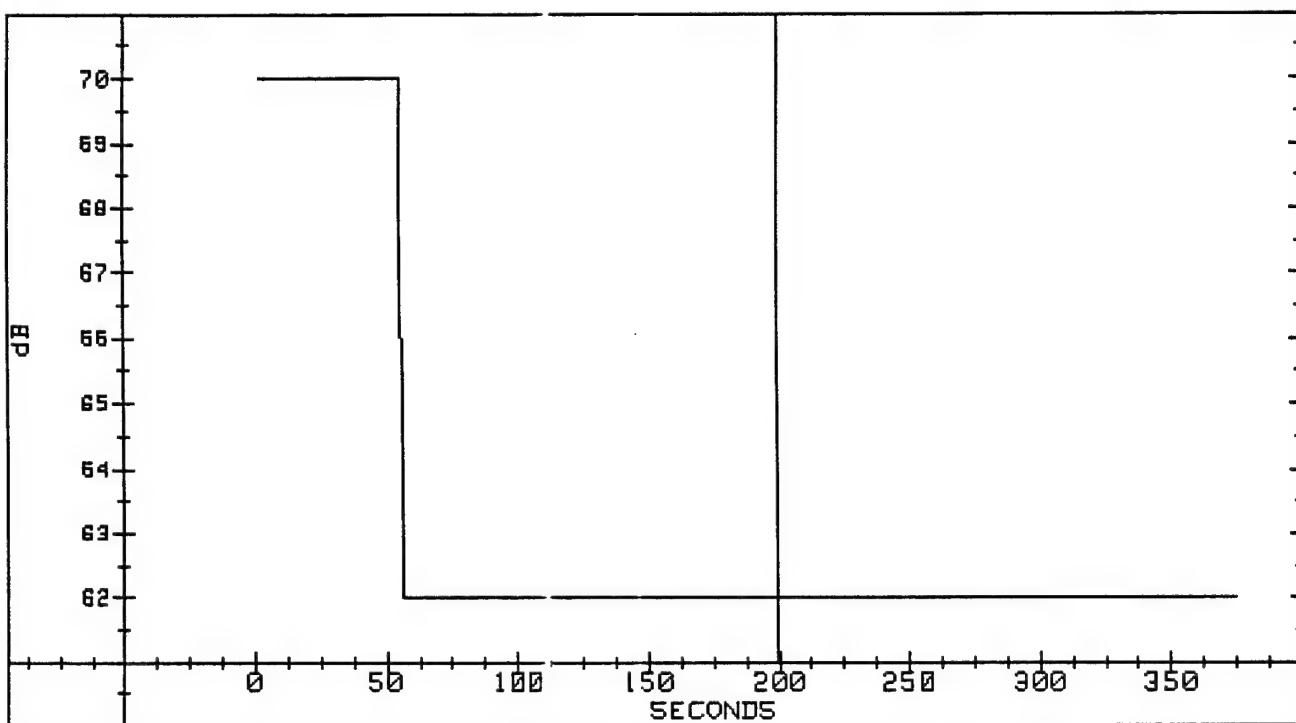
Ch3 RES Attenuation

DAY 179 TIME 2:59 PASS 27 m= 58, sd= 0



Ch4 RES Attenuation

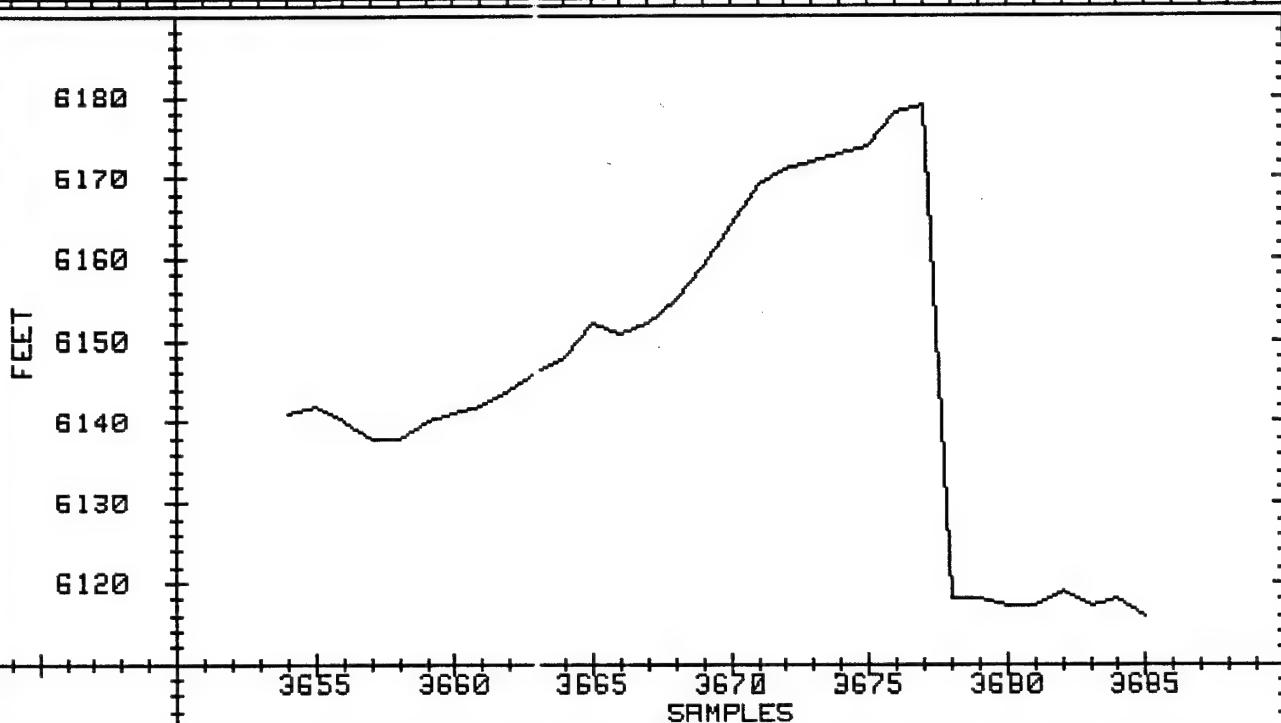
DAY 179 TIME 2:59 PASS 27 m- 62, sd- 0



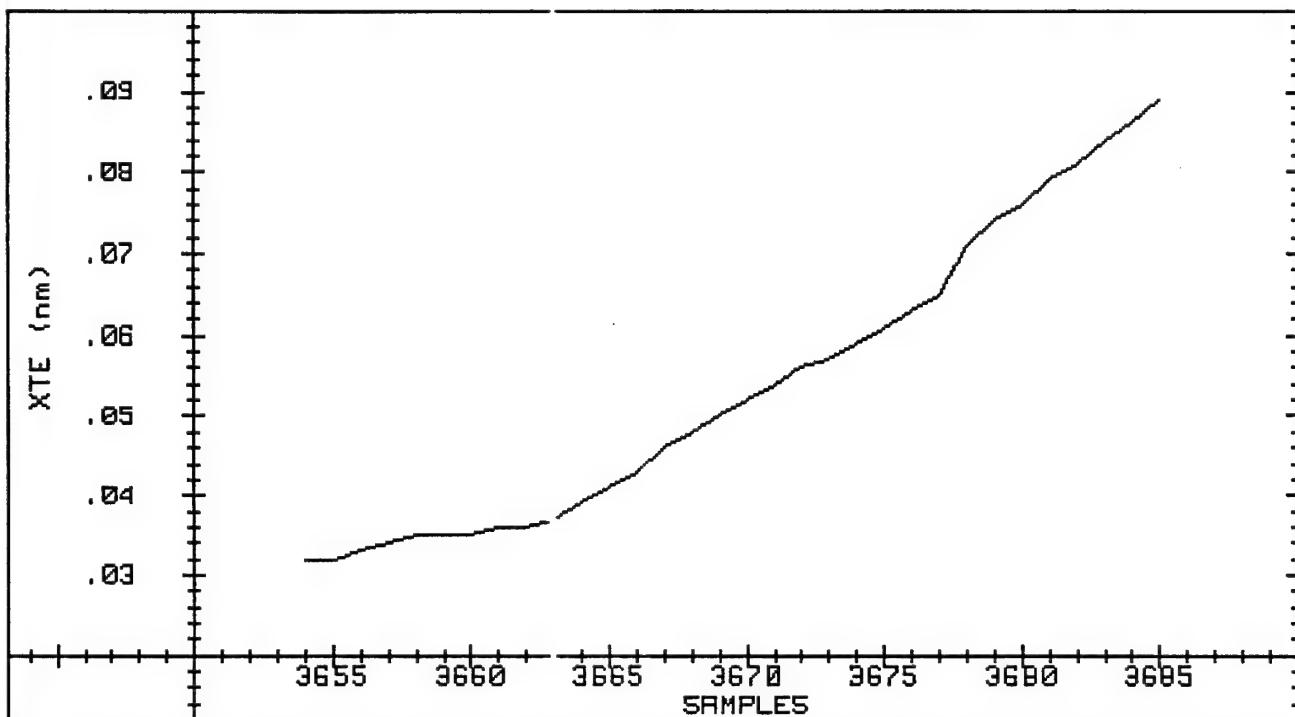
GPS ALTITUDE

MEAN= 6145.28 STANDARD DEVIATION= 20.0815
DATE: June 27, 1995 PASS 27

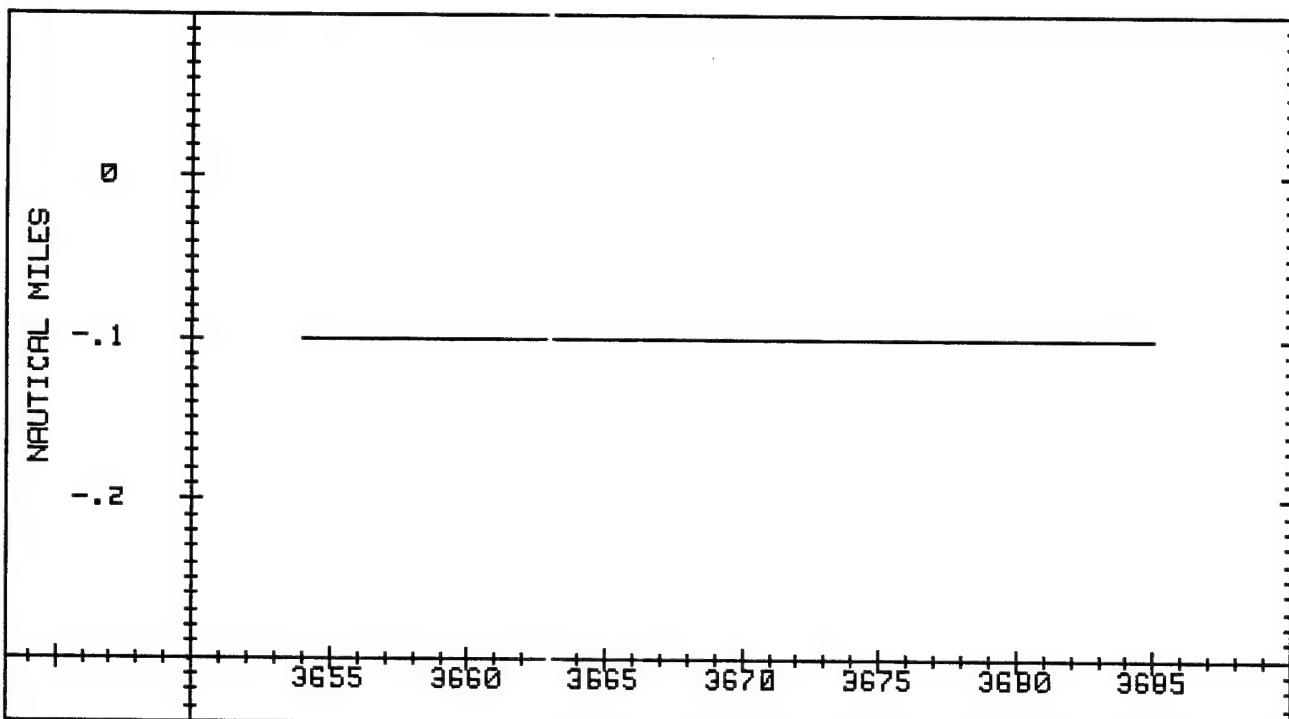
OFF
ON
BRR



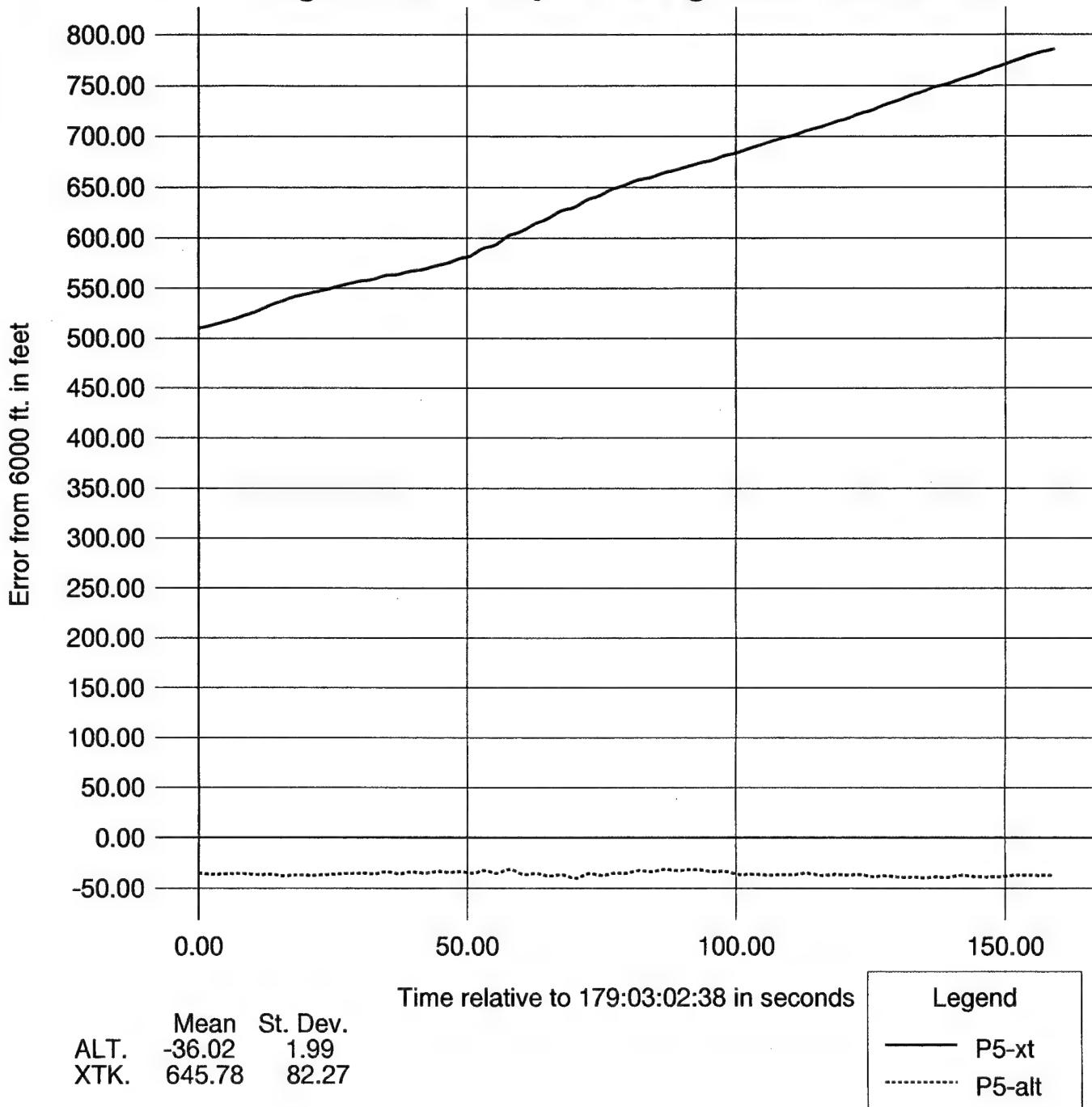
GPS Cross Track Error
MEAN= .0537188 STANDARD DEVIATION= .0180507
DATE: June 27, 1995 PASS 27



INS CROSS TRACK ERROR
MEAN= -.1 STANDARD DEVIATION= 1.31709E-9
DATE: June 27, 1995 PASS 27



Portage, ME - June 27, 1995 - Pass 27 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero



28 Jun 1995
Tape: 1441

Post-line Data Sheet
Line 47
Mission: Presque Isle DAY 3

Time: 179:03:13:11
Pass 28
Req.# 25

AIRCRAFT & CHANNEL DATA

Altitude			CH 1	CH 2	CH 3	CH 4
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5947 ft s.d. =	2 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slt. rng:	20207 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18672	18672	18672	18672
Depr Ang:	25.0°	Near Rng Dep:	18.6°	18.6°	18.6°	18.6°
Des. trk:	90.0°	Far Rng Dep:	9.8°	9.8°	9.8°	9.8°
Start Sq:	90.0°	Atten (dB):	48.0	61.0	47.0	61.0
End Sq:	90.0°	RMS Video (%FS)	27.0	17.2	20.1	18.1

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:47.28	W 68:53.71	Main Target: IE
Start:	N 46:47.33	W 68:36.25	Mocomp Point:
End:	N 46:47.33	W 68:21.71	Lat: N 46:44.12
From:	N 44:18.04	W 92:01.47	Long: W 68:28.98
To:	N 44:18.04	W 44:56.49	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 770.0 ft

RADAR PARAMETERS - for UWB

RTP Channel:	1	Filter damping is Hi -> 10 sec
Resolution:	N/A	PRF Factor is FAST (262.5 kts)
Swath width:	Single	Ave Gndspd: Real -> 251.6 kts
RMS Time Constant:	2^7	Mocomp Off for Chnl 1, 2, 3, 4
Position Reference:	ON	GPS Vel/Pos Reference
Atten. Tracking:	OFF	Adj Gnd Scene: 5000.0 ft
Range Gate Delta:	0.0 ft	Range Tracking is OFF
Azimuth Presum Rate:	Presum6	Clutterlock Reference: OFF
TX Chirp Filename:	CTLNU2B	RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.9 fps (s.d.= 8.6)
Ave Fil Vel -> 4.9 fps (s.d.= 8.3)

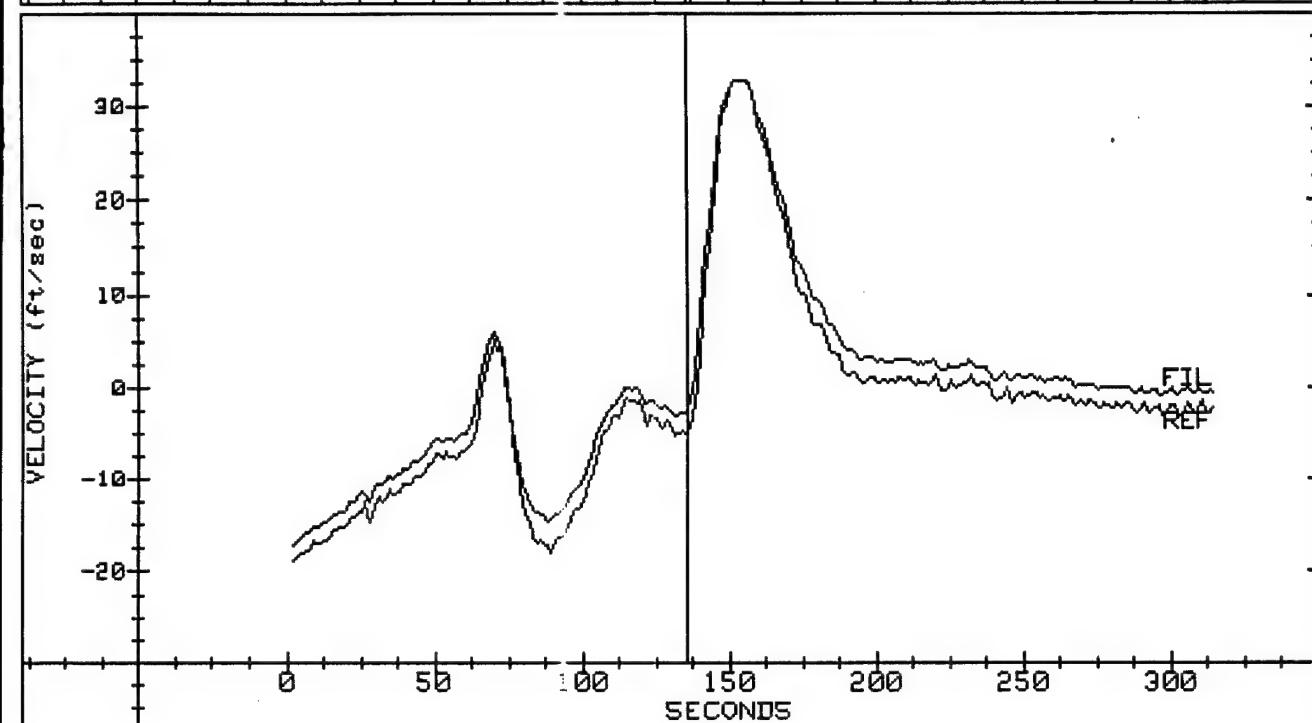
NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°		
L: -70.0	Azimuth: 0.0°	Starting: 8931 ft	(1)
C: -70.0	Pitch: 0.0°	Ending: 10190 ft	(1)
P: 39.7			

Vel Bias	CAL Atten	LINE Map Time (UCT)
X: 2079.0	X: 63.8 dB	Start: 03:13:11
Y: 1867.0	L: 63.8 dB	End: 03:15:51
Z: 17142.0	C: 63.8 dB	

Mocomp Counters	CPA (UCT): 00:00:00
Start: 1616643 0018AB03h	Alt: 0 ft (GPS)
End: 1643480 001913D8h	Lat: N 0:00: 0
	Lon: E 0:00: 0

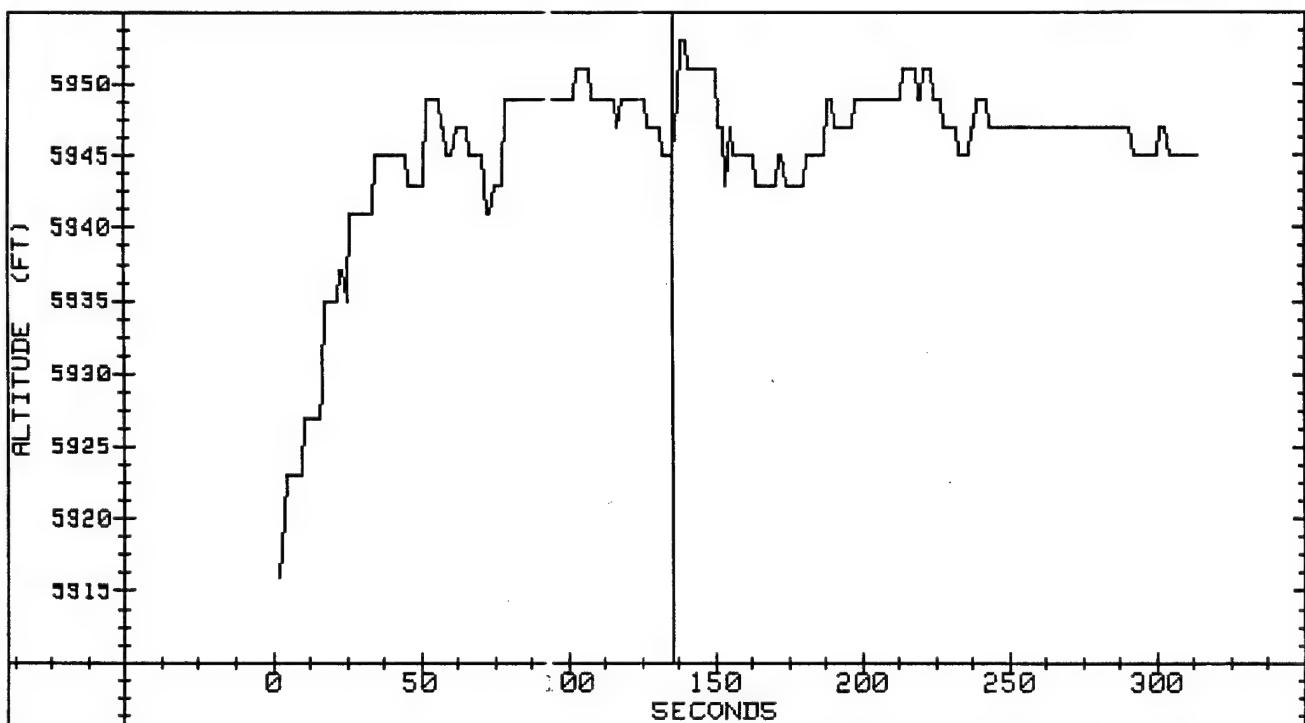
FILTERED vs. REF. VELOCITY
DAY 179 TIME 3:10 PASS 20

IN5
LORAH
GP9



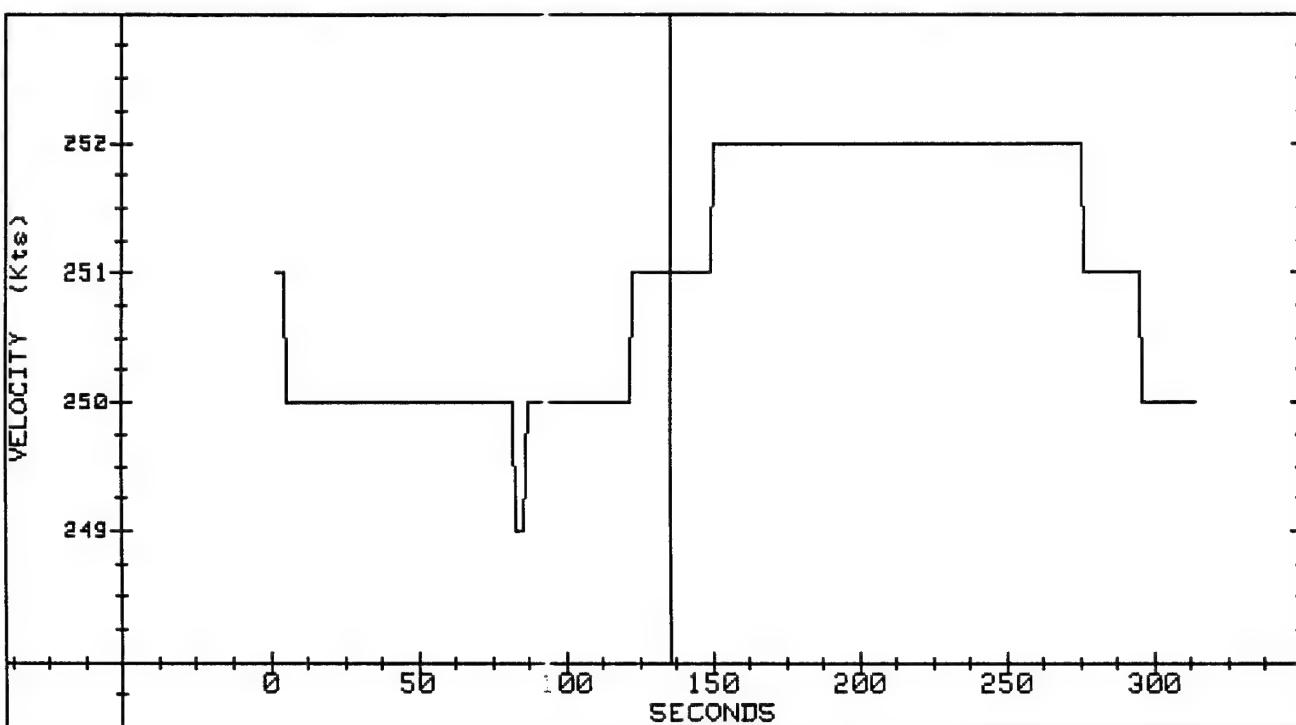
BARO ALTITUDE

DAY 179 TIME 3:10 PASS 28 m- 5947, sd- 2.00001



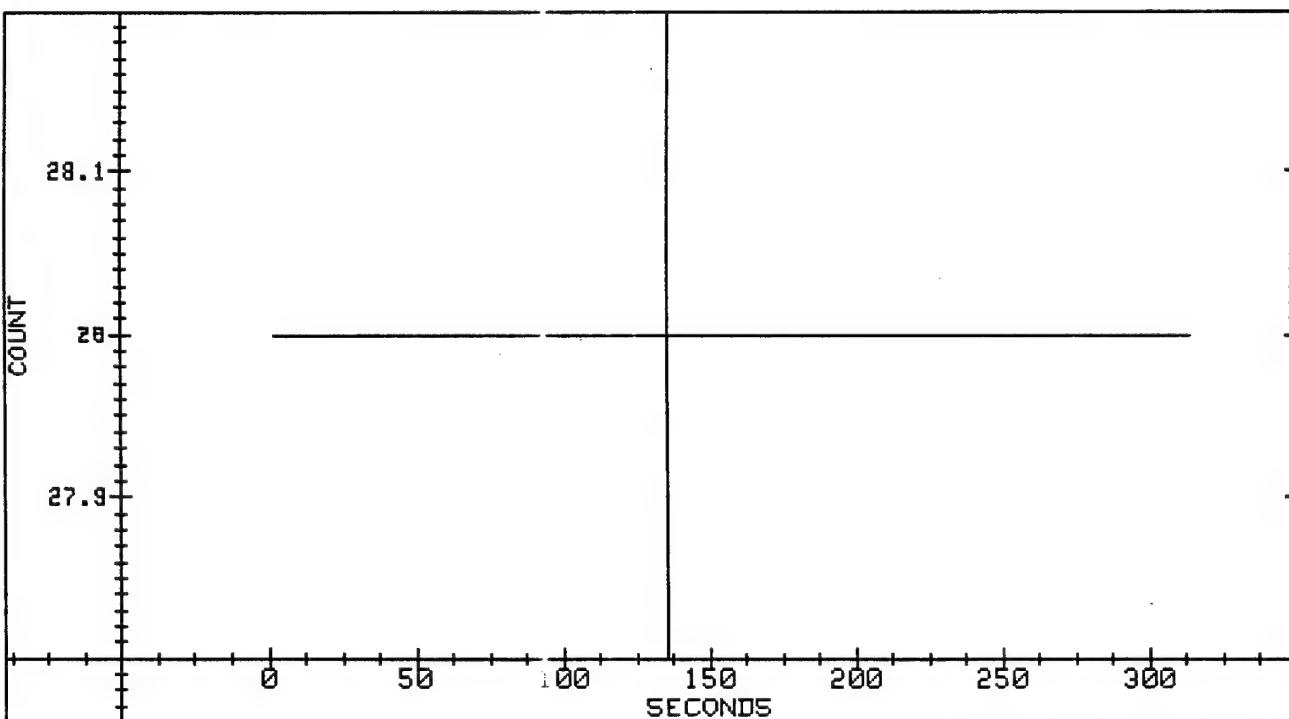
ING GROUND SPEED

DRY 179 TIME 3:10 PRSS 28 m- 251.6, sd- .683004



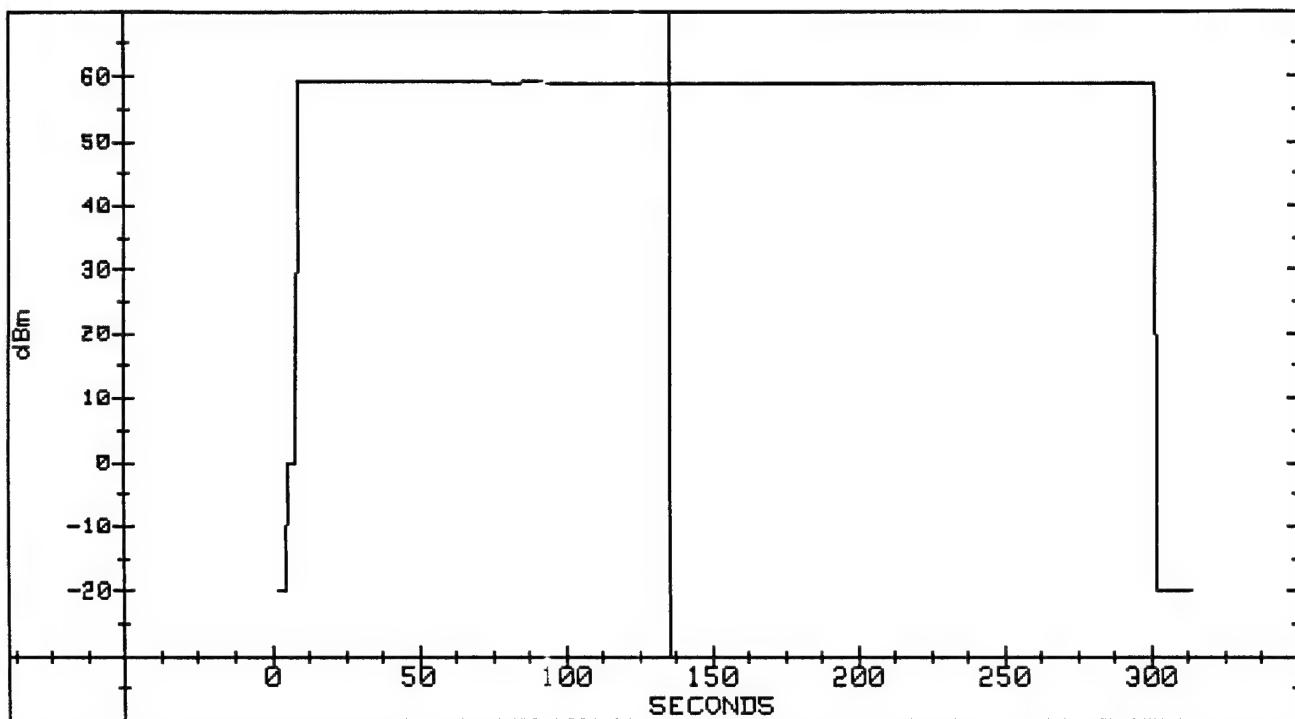
PASS NUMBER

DAY 179 TIME 3:10 PASS 28 m= 28, sd= 0



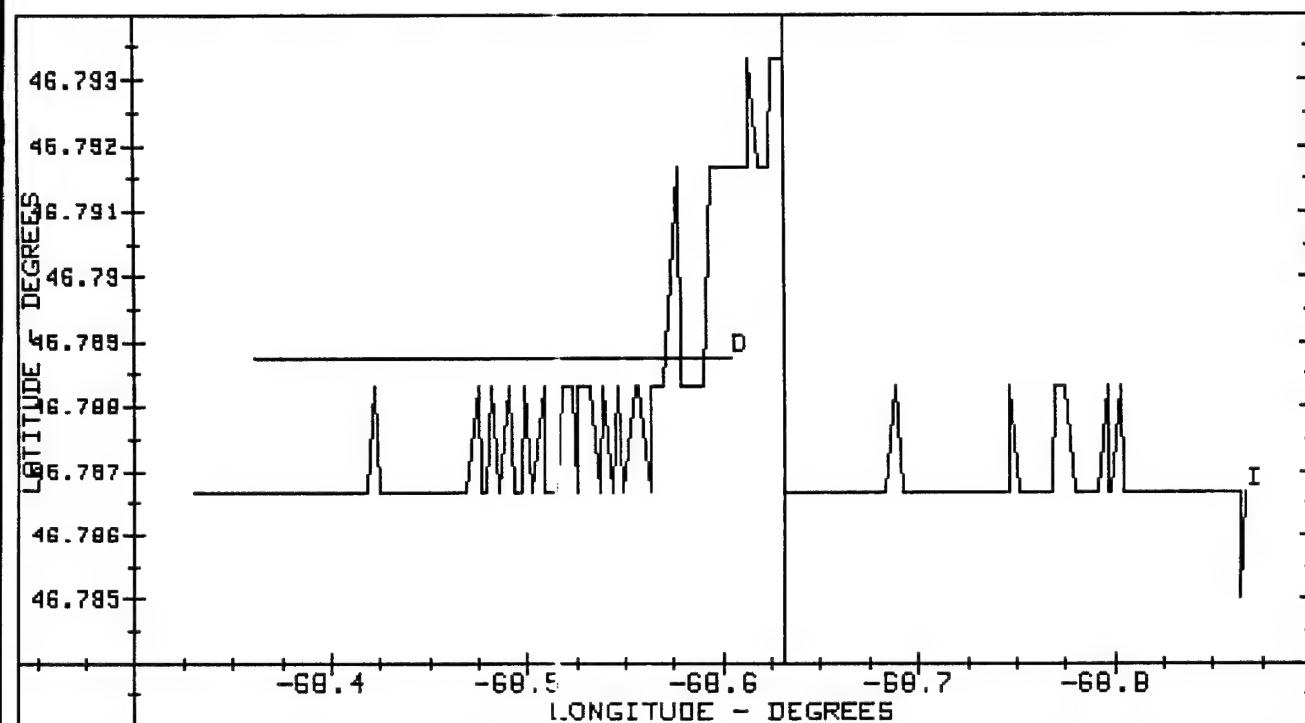
P Band Power

DAY 179 TIME 3:10 PASS 28 m= 52.52, sd= 21.494



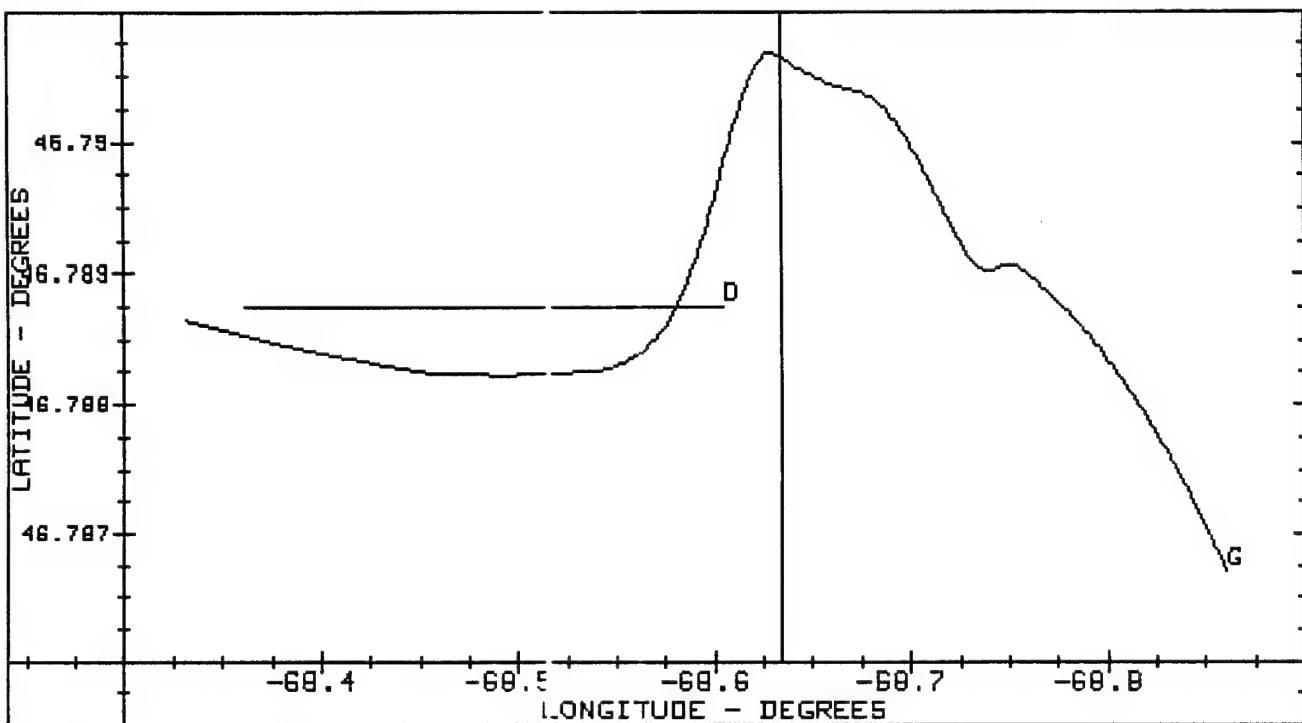
INS AIRCRAFT POSITION

DAY 179 TIME 9:10 PASS 28



GPS AIRCRAFT POSITION

DAY 179 TIME 3:10 PASS 20

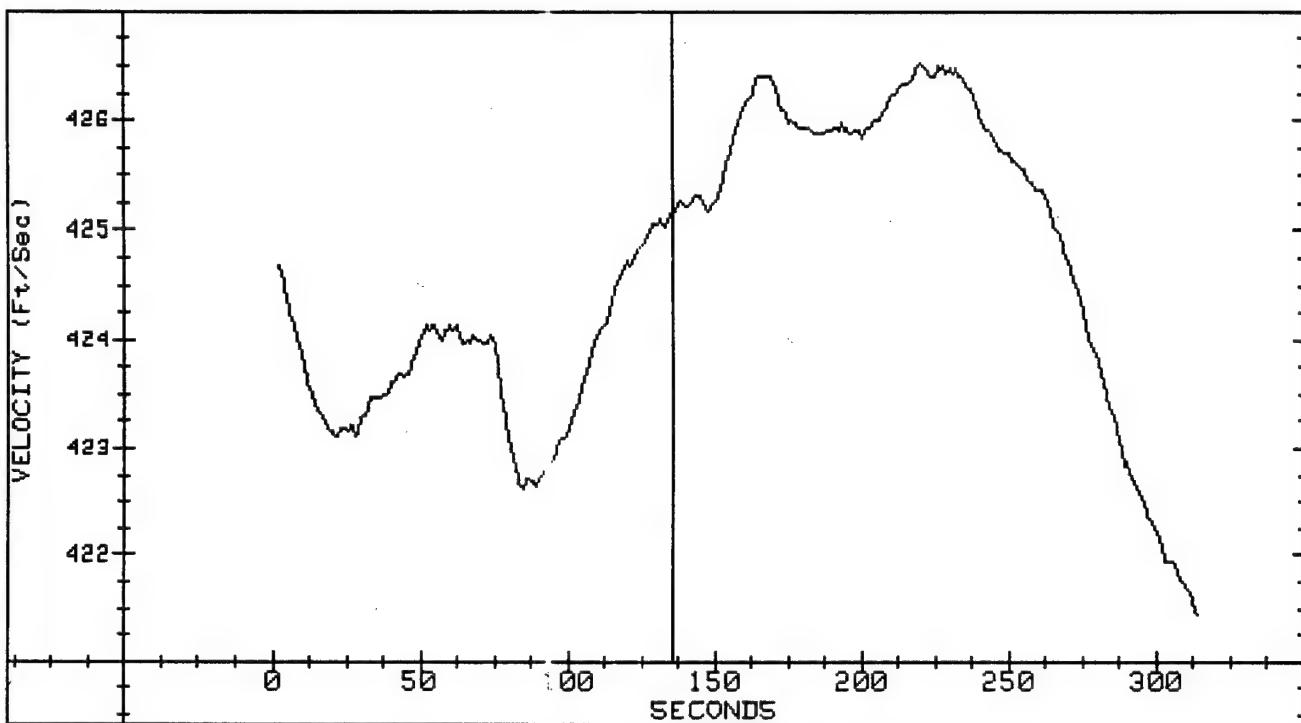


GPS Ve

DRY 179 TIME 3:10

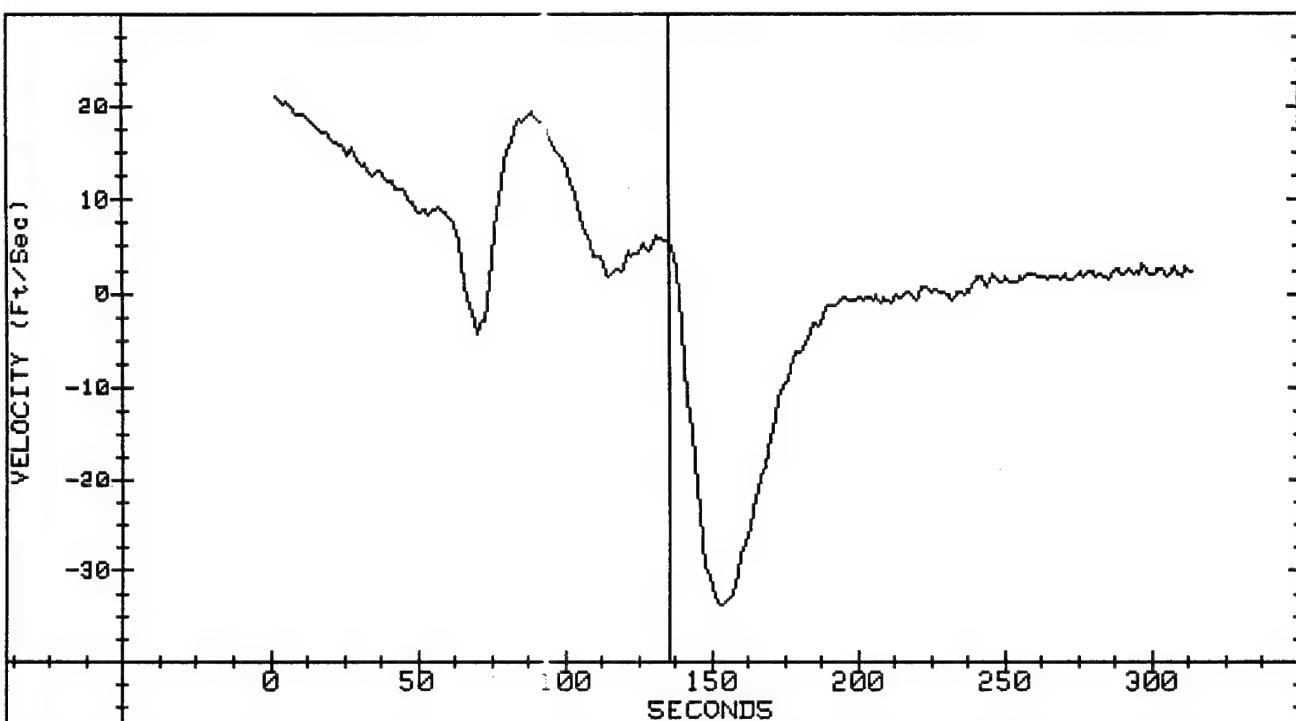
PASS 28

$m = 425.1$, $sd = 1.52101$



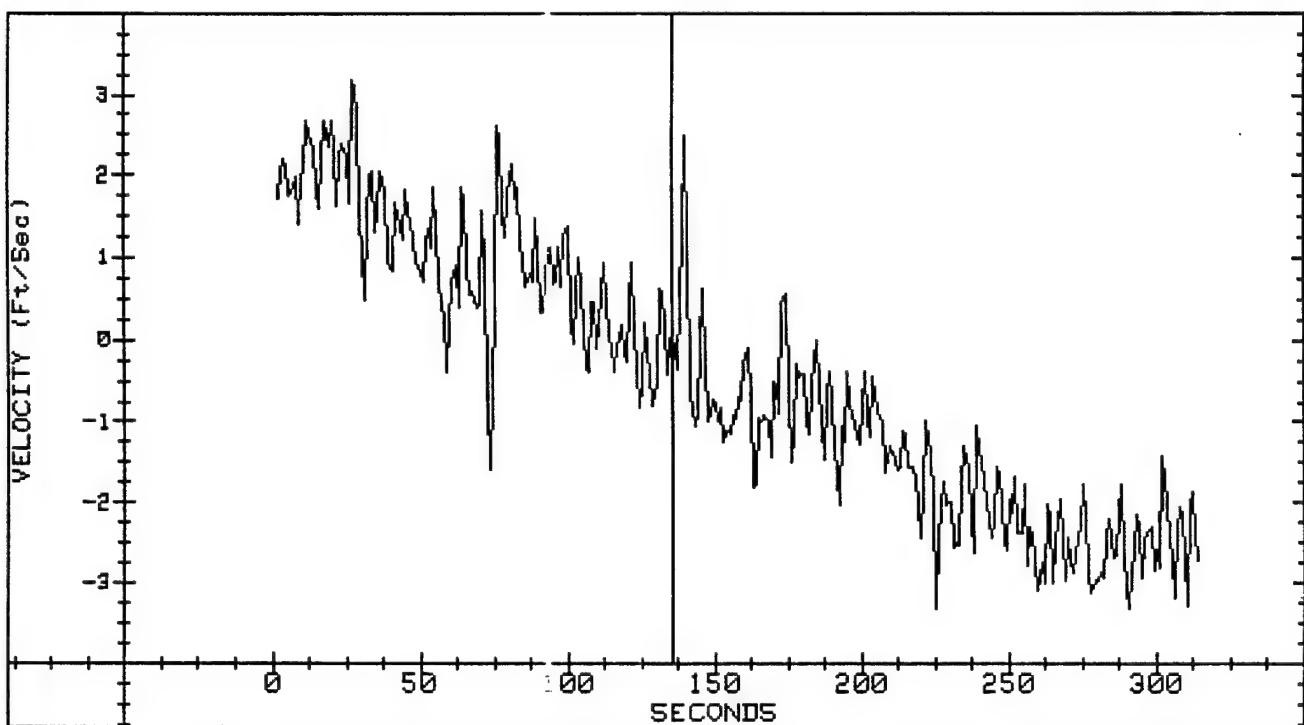
GPS Vn

DAY 179 TIME 3:10 PASS 28 m= -2.648, sd= 8.66421



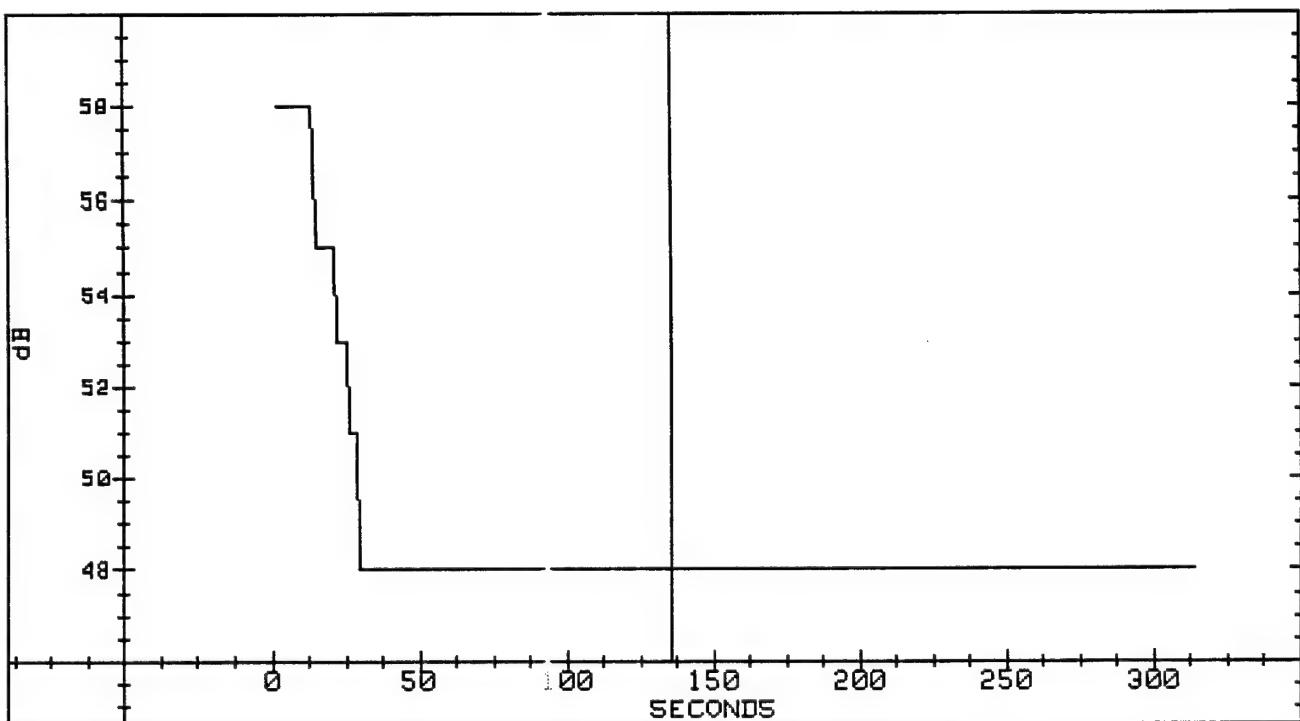
GPS Vv

DAY 179 TIME 3:10 PASS 28 m= -1.768, sd= .858355



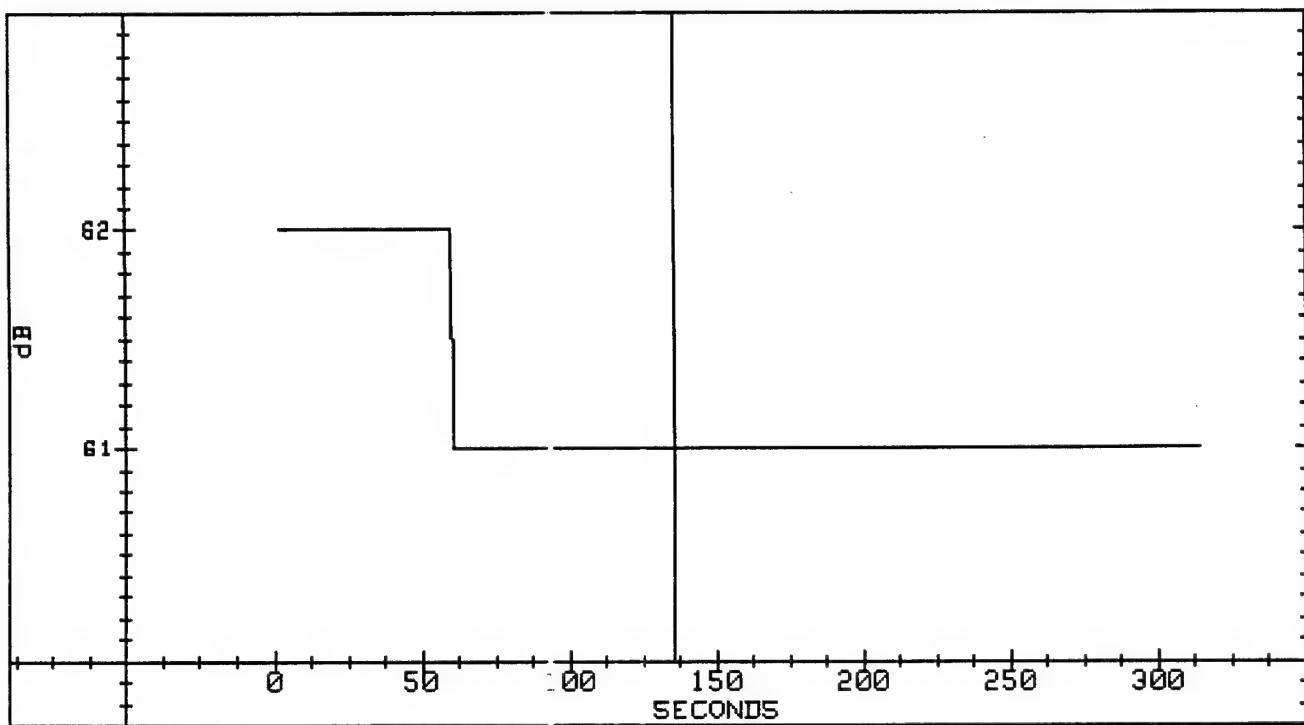
Ch1 RES Attenuation

DAY 179 TIME 3:10 PASS 28 m= 48, sd= 0



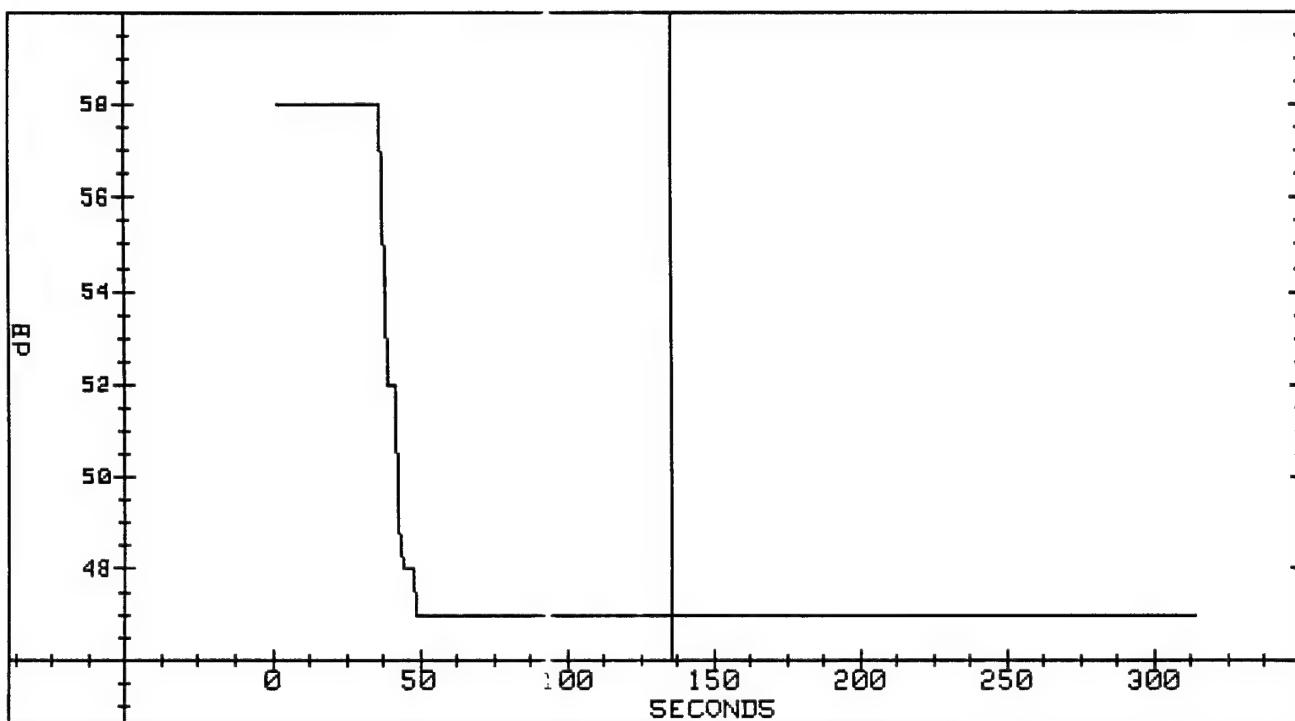
Ch2 RES Attenuation

DAY 179 TIME 3:10 PASS 20 m= 61, sd= 0



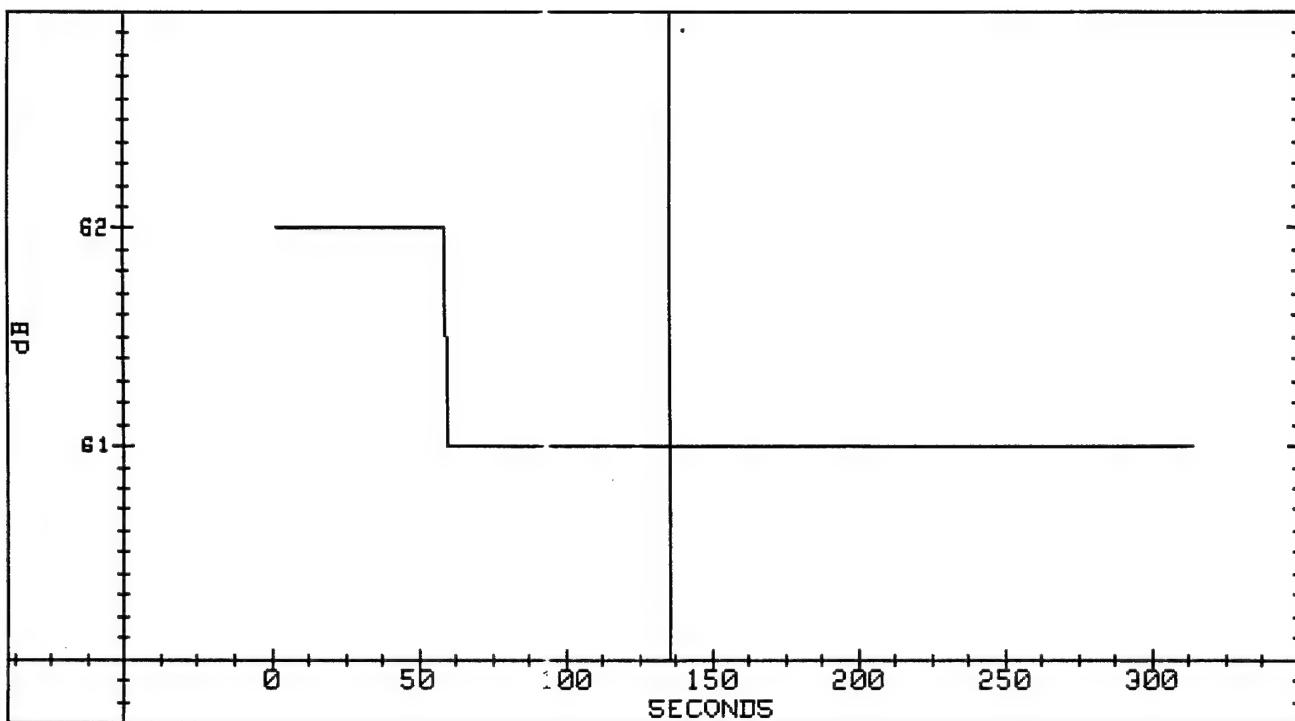
Ch3 RES Attenuation

DAY 179 TIME 3:10 PASS 28 m= 47, sd= 0



Ch4 RES Attenuation

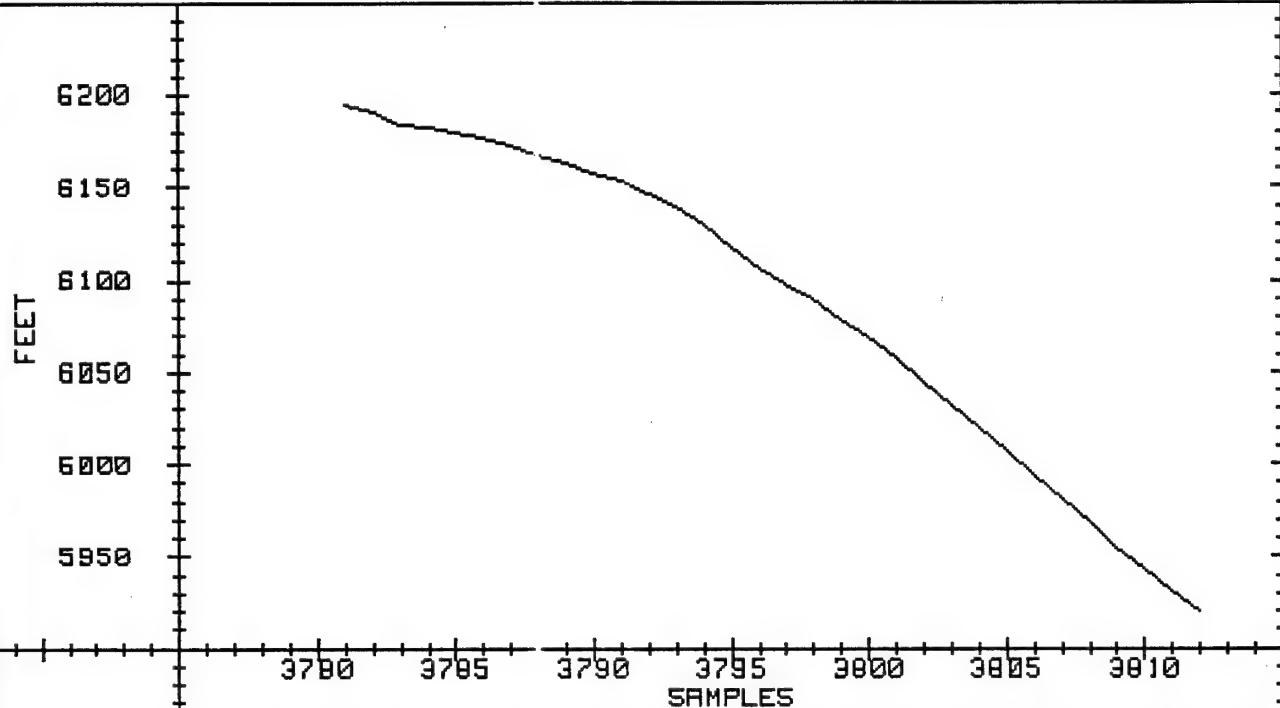
DAY 179 TIME 3:10 PASS 29 m= 61, sd= 0



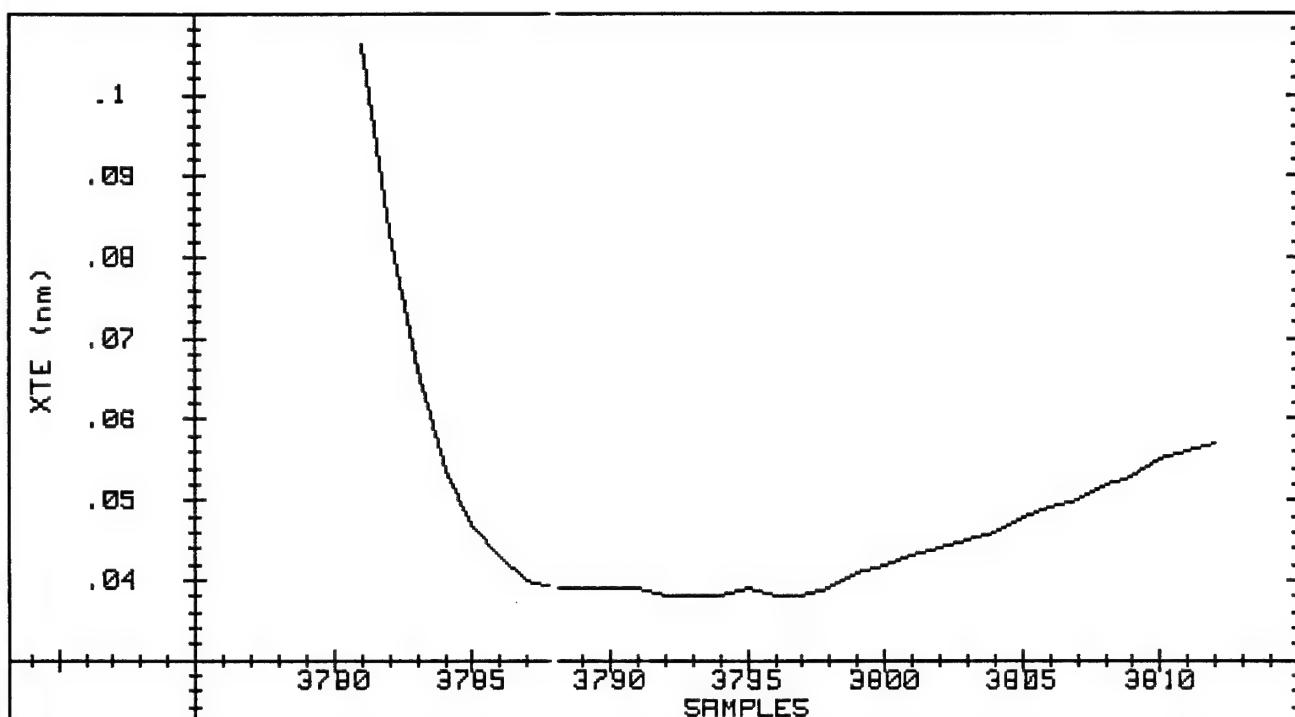
GPS ALTITUDE

MEAN= 6085.84 STANDARD DEVIATION= 86.0207
DATE: June 27, 1995 PASS 28

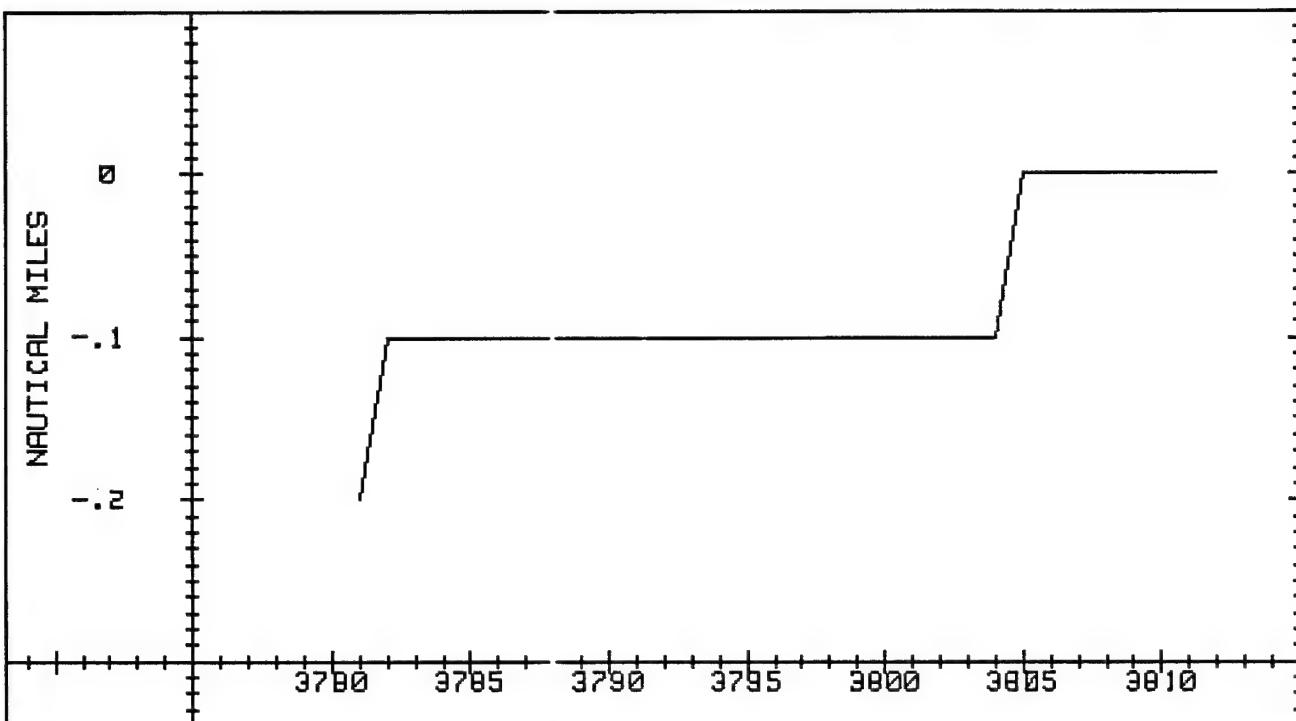
OFF
ON
BRR



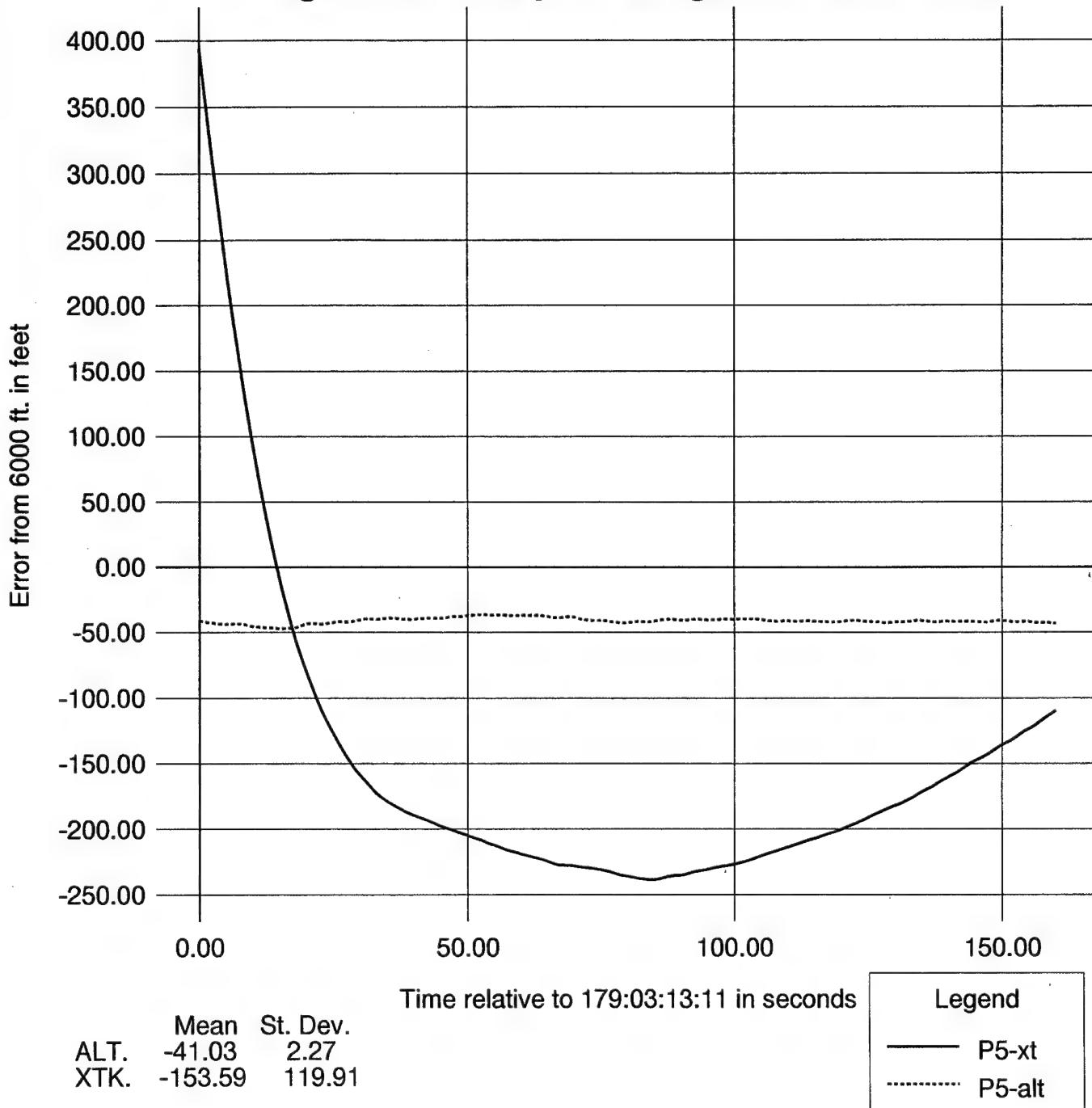
GPS Cross Track Error
MEAN= .04825 STANDARD DEVIATION= .0141443
DATE: June 27, 1995 PASS 28



INS CROSS TRACK ERROR
MEAN= -.078125 STANDARD DEVIATION= .0483113
DATE: June 27, 1995 PASS 28



Portage, ME - June 27, 1995 - Pass 28 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero



28 Jun 1995
Tape: E1442

Post-line Data Sheet
Line 49
Mission: Presque Isle DAY 3

Time: 179:03:24:16
Pass 29
Req. # 26

AIRCRAFT & CHANNEL DATA

Altitude		CH 1	CH 2	CH 3	CH 4	
Desired:	6000 ft	Wave/Pol.:	p-VV	p-VH	p-HV	p-HH
Baro:	5961 ft s.d. =	3 Swath Ctr Ang:	15.0°	15.0°	15.0°	15.0°
Slr. rng:	20091 ft	Tgt Dep Ang:	15.0°	15.0°	15.0°	15.0°
Look:	Right	St rng (ft):	18556	18556	18556	18556
Depr Ang:	25.0°	Near Rng Dep:	18.7°	18.7°	18.7°	18.7°
Des. trk:	276.0°	Far Rng Dep:	9.9°	9.9°	9.9°	9.9°
Start Sq:	90.0°	Atten (dB):	60.0	63.0	60.0	63.0
End Sq:	90.0°	RMS Video (%FS)	7.1	8.8	5.4	9.6

WAYPOINTS

	Latitude	Longitude	
Line_up:	N 46:39.29	W 68:04.91	Main Target: CALCS
Start:	N 46:40.59	W 68:22.23	Mocomp Point:
End:	N 46:41.63	W 68:36.69	Lat: N 46:44.29
From:	N 42:35.05	W 45:46.39	Long: W 68:28.98
To:	N 45:52.31	W 92:35.10	Tgt Trk: 0.0 Tgt Vel: 0.0
			Alt: 800.0 ft

RADAR PARAMETERS - for UWB

RTP Channel: 1
Resolution: N/A
Swath width: Single
RMS Time Constant: 2^7
Position Reference: ON
Atten. Tracking: OFF
Range Gate Delta: 0.0 ft
Azimuth Presum Rate: Presum6
TX Chirp Filename: CTLNU2B

Filter damping is Hi -> 10 sec
PRF Factor is FAST (262.5 kts)
Ave Gndspd: Real -> 249.2 kts
Mocomp Off for Chnl 1, 2, 3, 4
GPS Vel/Pos Reference
Adj Gnd Scene: 5000.0 ft
Range Tracking is OFF
Clutterlock Reference: OFF
RX Chirp Filename: CRL1N0A

Ave Ref Vel -> 2.2 fps (s.d.= 4.3)
Ave Fil Vel -> 3.5 fps (s.d.= 4.1)

NML XMIT PWR	ANT BIAS	Tape Footage	Drive no.
X: -70.0	Elevation: 0.0°	Starting: 200 ft	(2)
L: -70.0	Azimuth: 0.0°	Ending: 1446 ft	(2)
C: -70.0	Pitch: 0.0°		
P: 39.8			

Vel Bias	CAL Atten
X: 2079.0	X: 63.8 dB
Y: 1867.0	L: 63.8 dB
Z: 17142.0	C: 63.8 dB

LINE Map Time (UCT)
Start: 03:24:16
End: 03:26:58

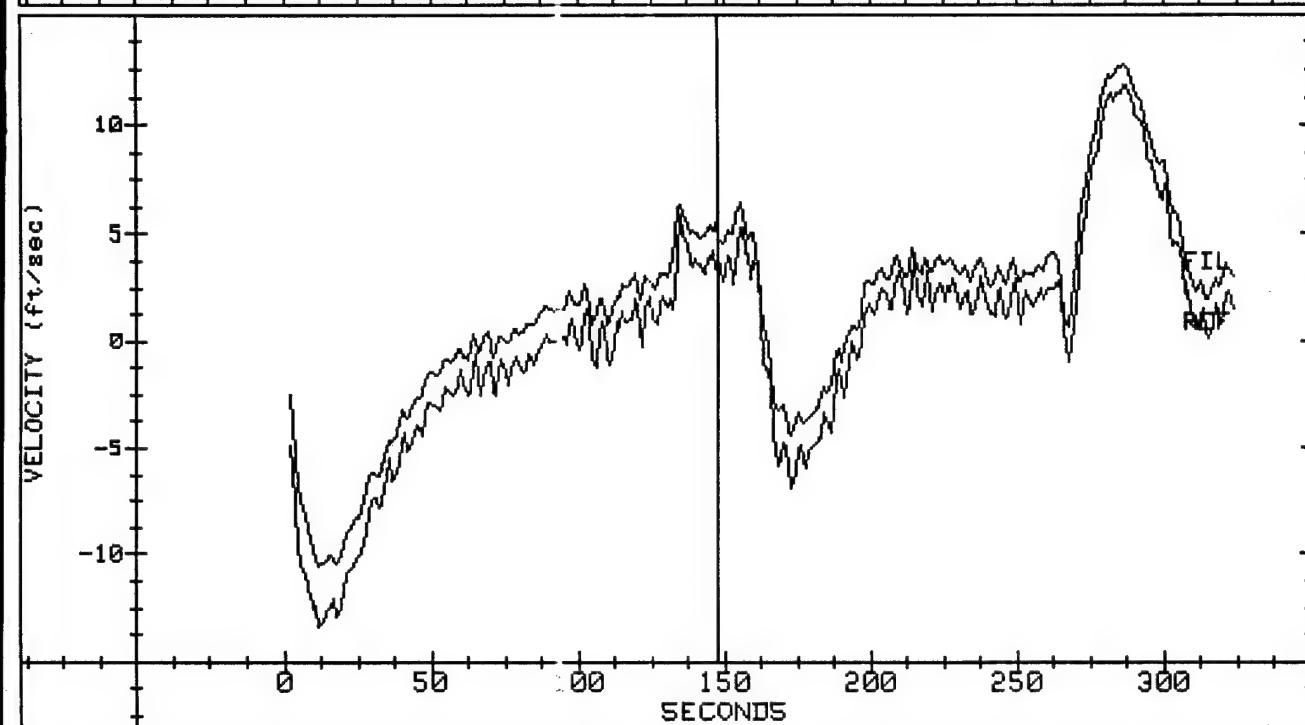
Mocomp Counters

Start: 1670511 0019'D6Fh
End: 1697661 0019N77Dh

CPA (UCT): 00:00:00
Alt: 0 ft (GPS)
Lat: N 0:00: 0
Lon: E 0:00: 0

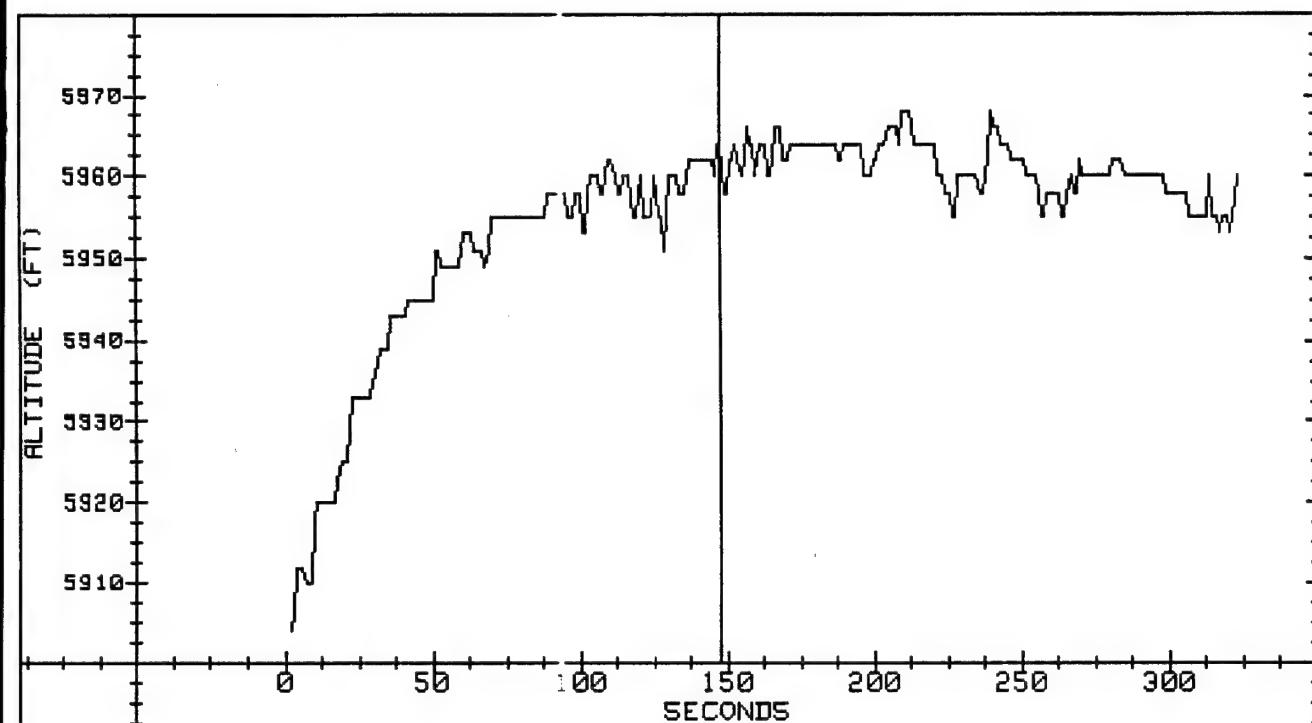
FILTERED vs. REF. VELOCITY
DAY 179 TIME 3:21 PASS 29

ING
LORAN
GPS



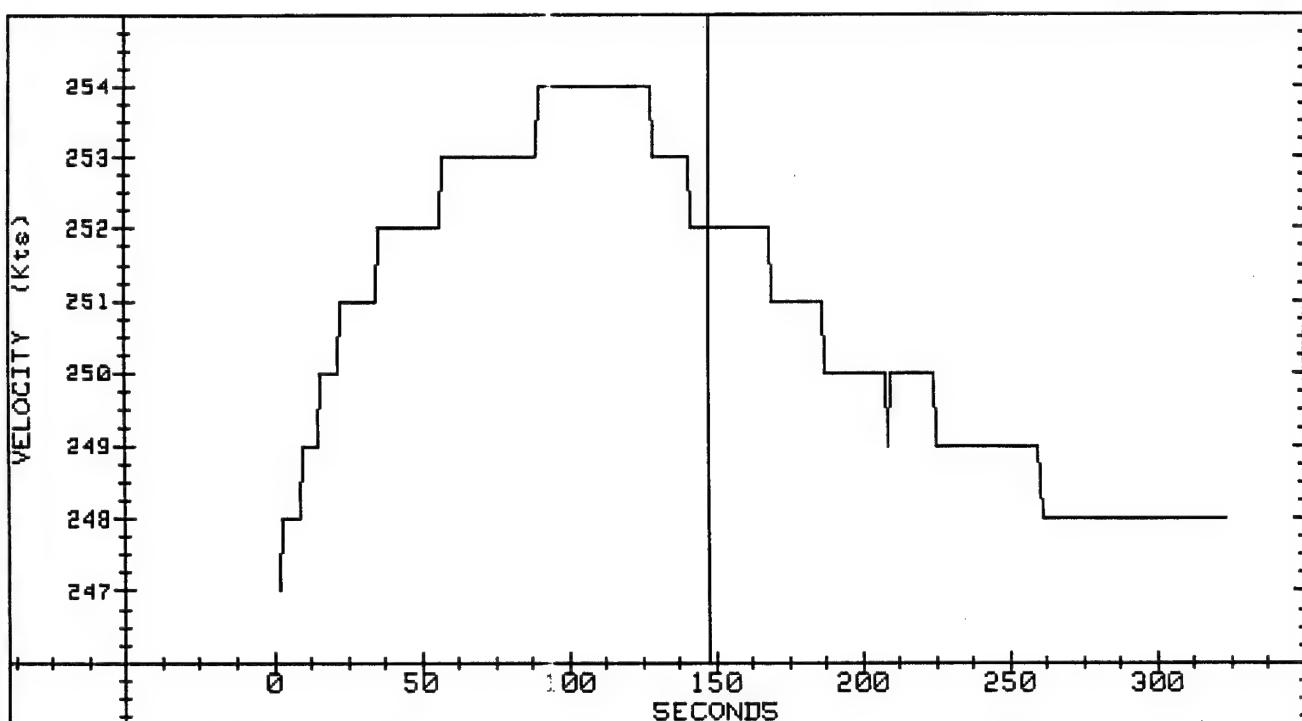
HARO ALTITUDE

DAY 179 TIME 3:21 PASS 29 m= 5961, sd= 3.30751



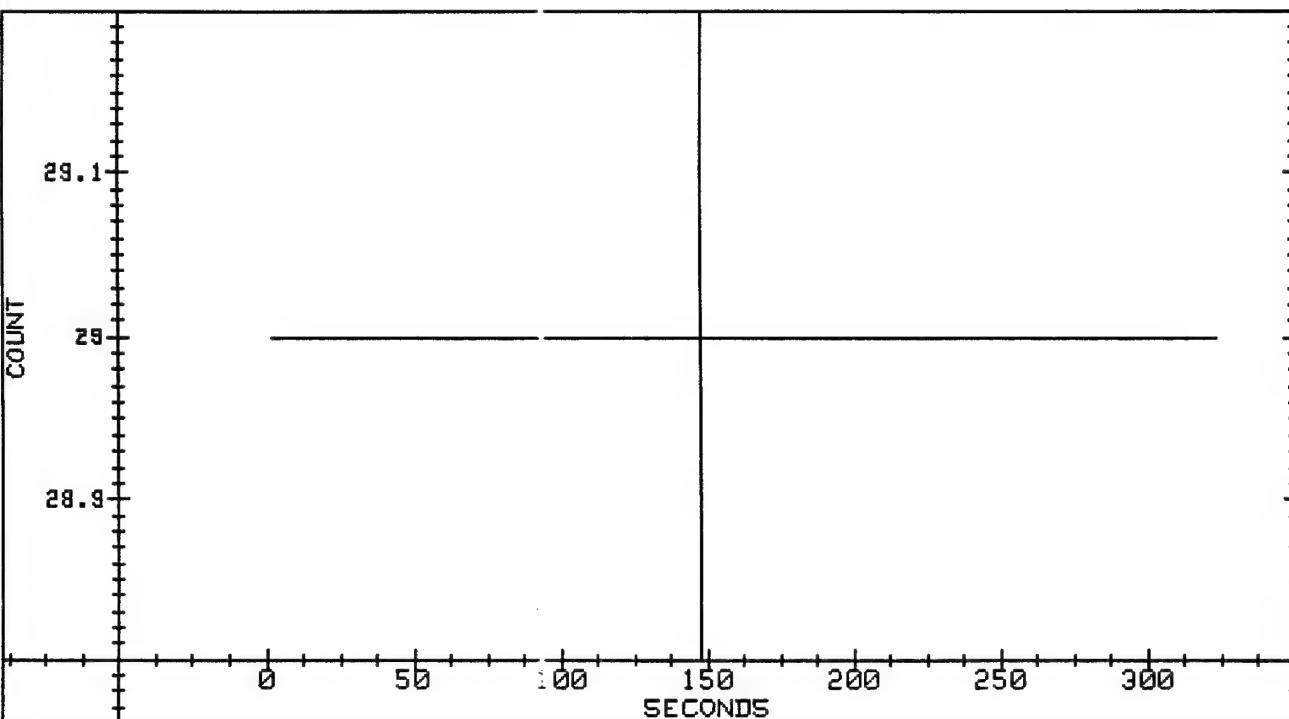
INS GROUND SPEED

DRY 179 TIME 3:21 PASS 29 m= 249.2, sd= 1.20558



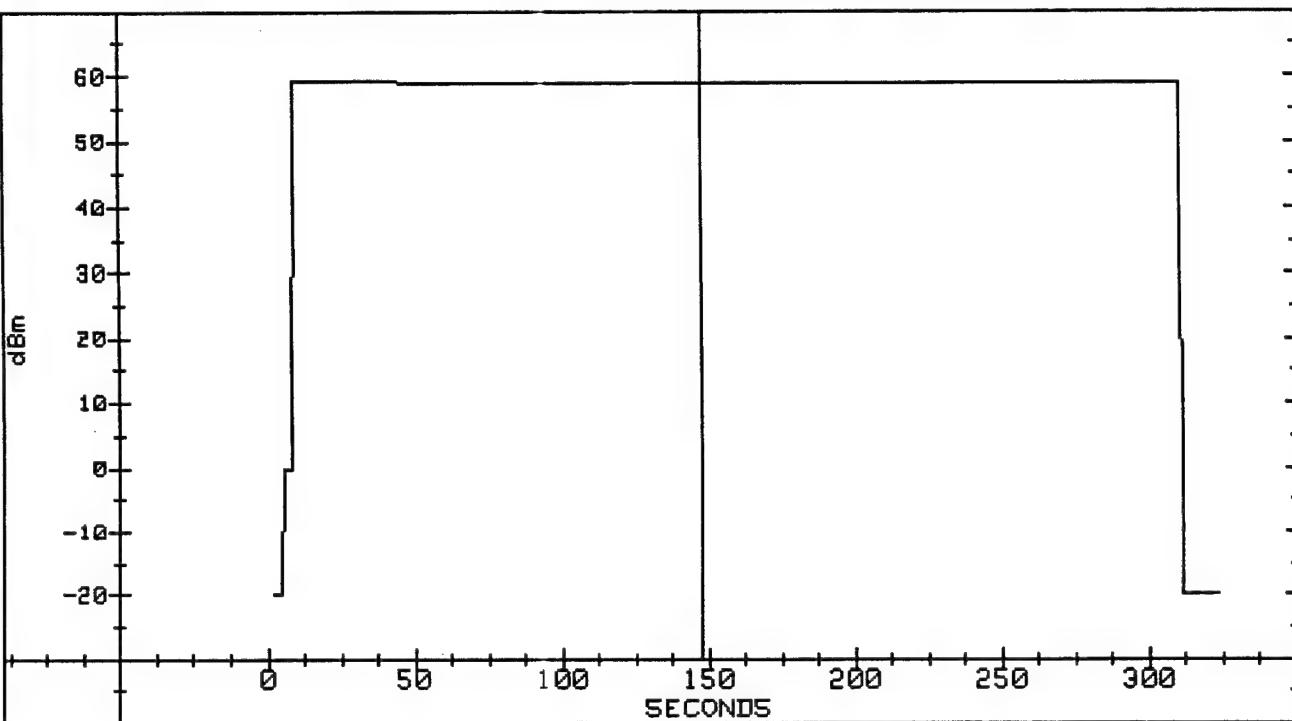
PASS NUMBER

DAY 179 TIME 3:21 PASS 29 m- 29, sd- 0



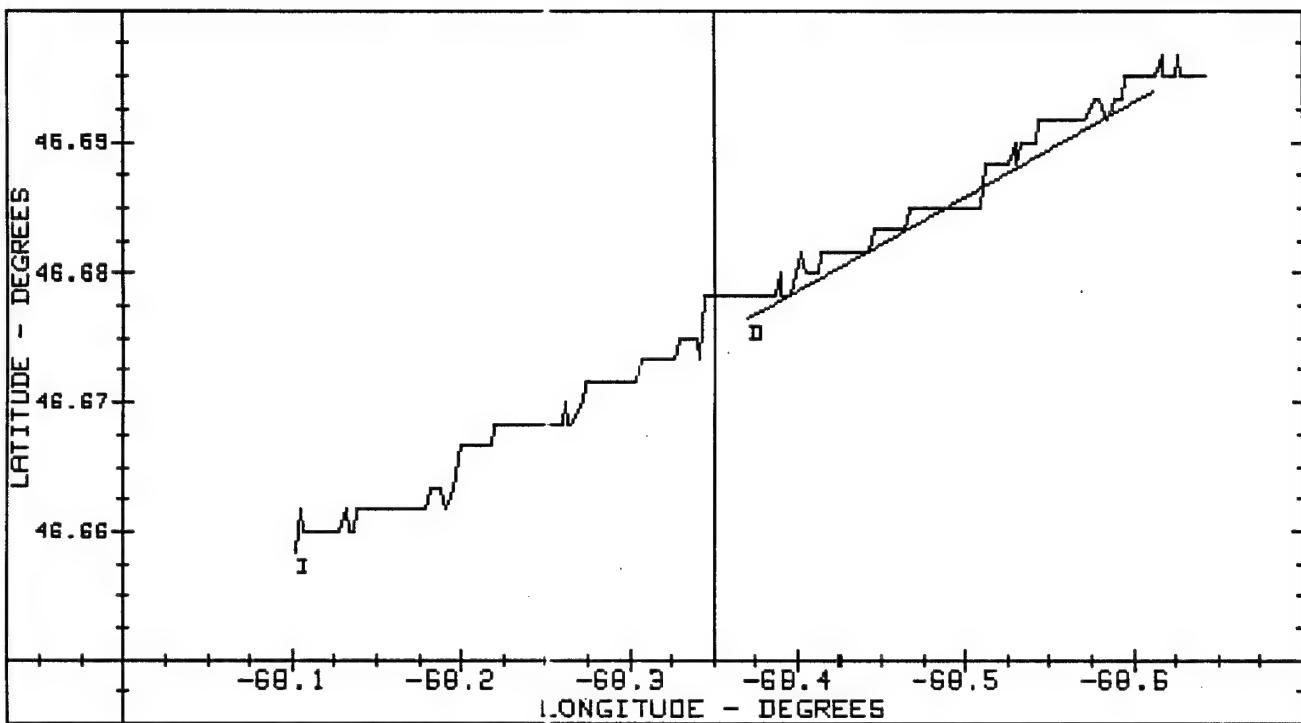
P Band Power

DAY 179 TIME 9:21 PASS 29 m= 52.55, sd= 21.359



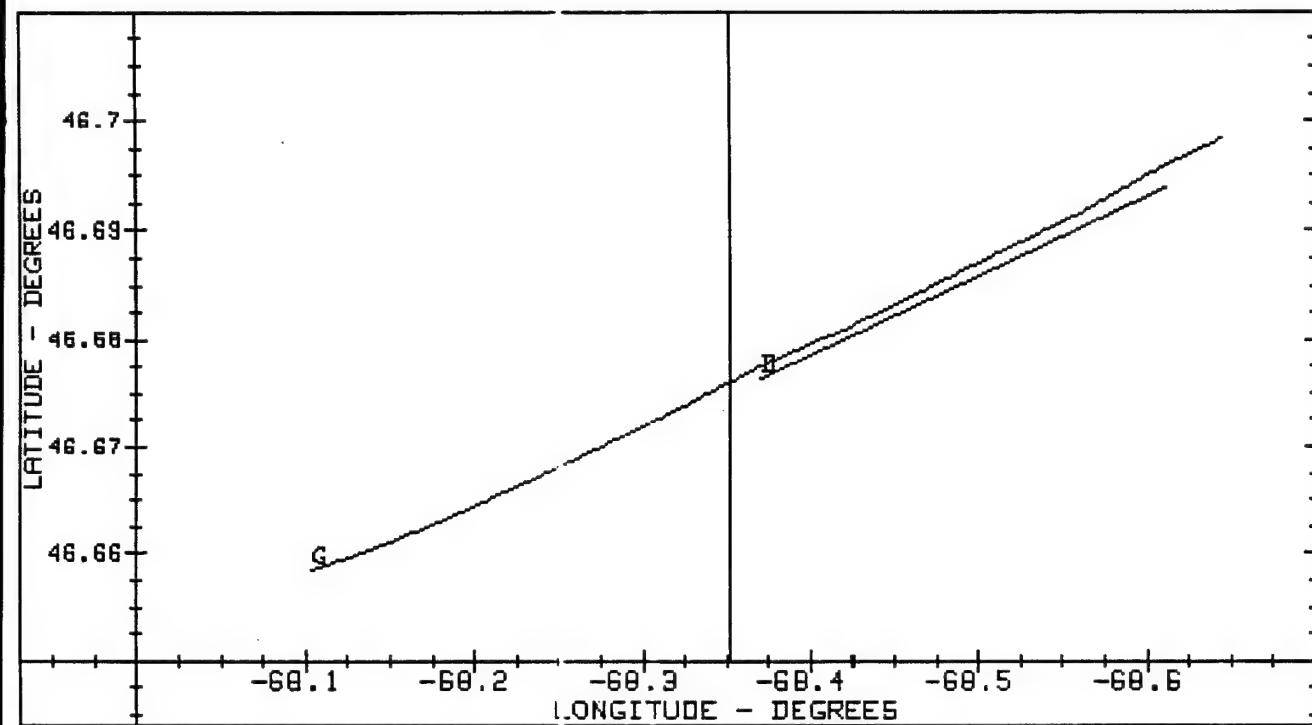
INS AIRCRAFT POSITION

DAY 179 TIME 9:21 PASS 29



GPS AIRCRAFT POSITION

DAY 179 TIME 3:21 PASS 29



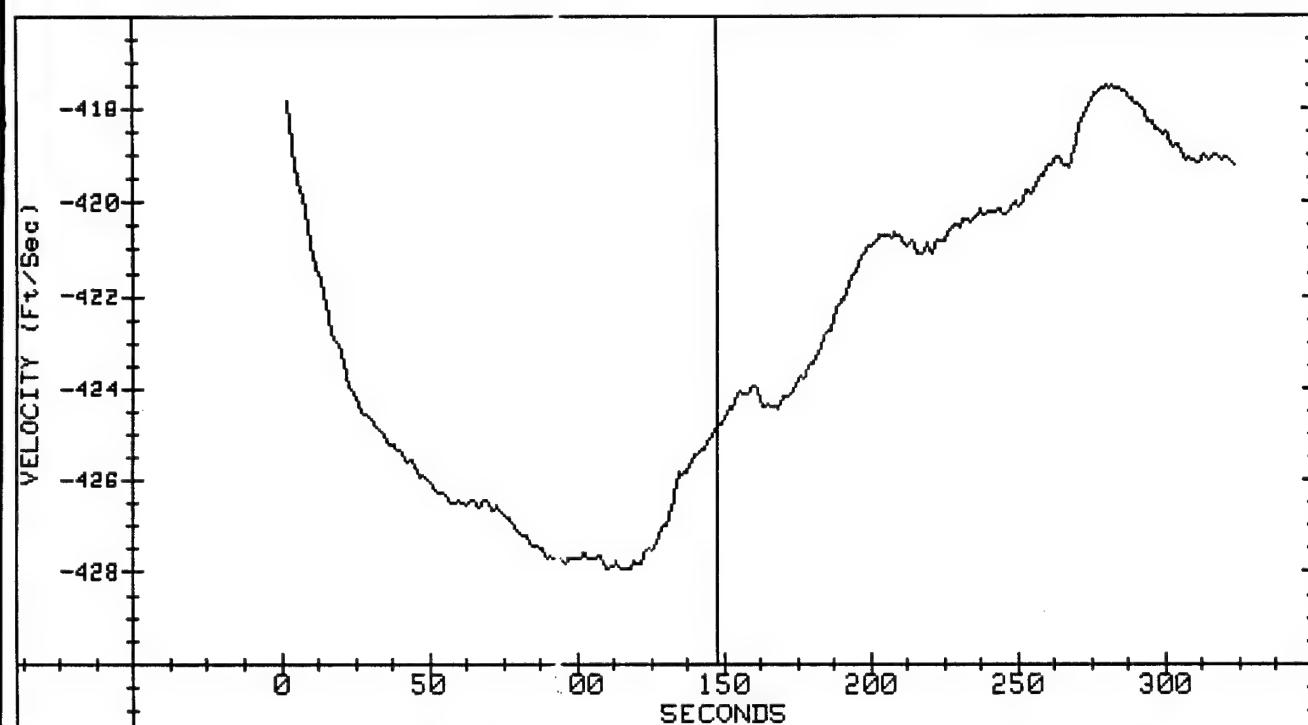
GPS Ve

DAY 179

TIME 9:21

PASS 29

$m = -420.3$, $sd = 1.919$

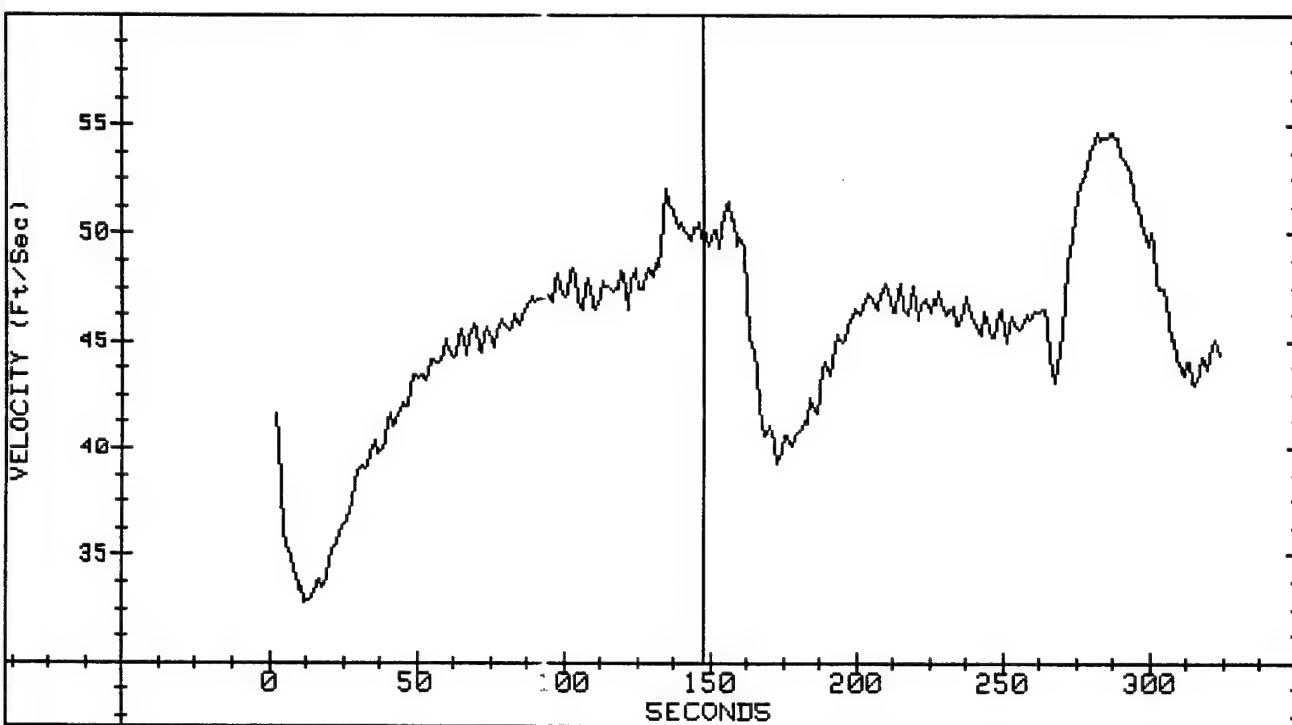


GPS Vn

DAY 179 TIME 3:21

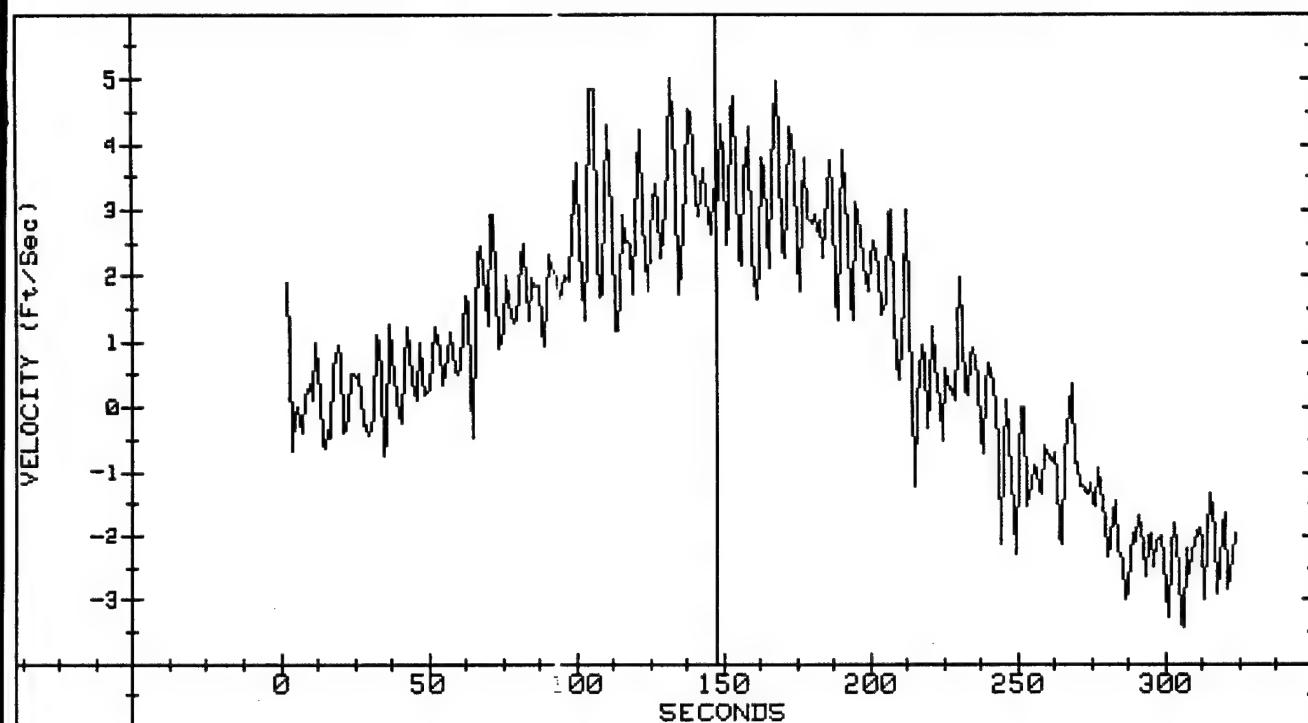
PRSS 29

$m = 46.41$, $sd = 3.54985$



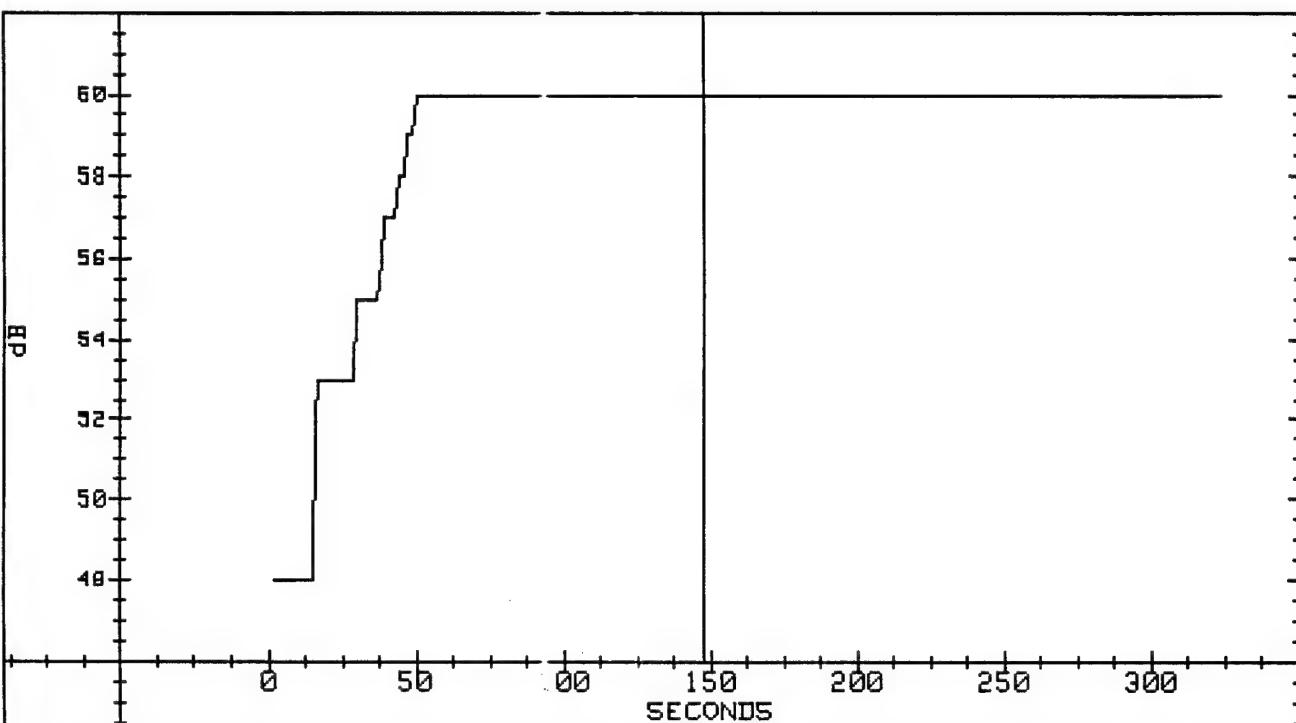
GPS Vv

DAY 179 TIME 3:21 PASS 29 $m = .04946$, $sd = 2.07765$



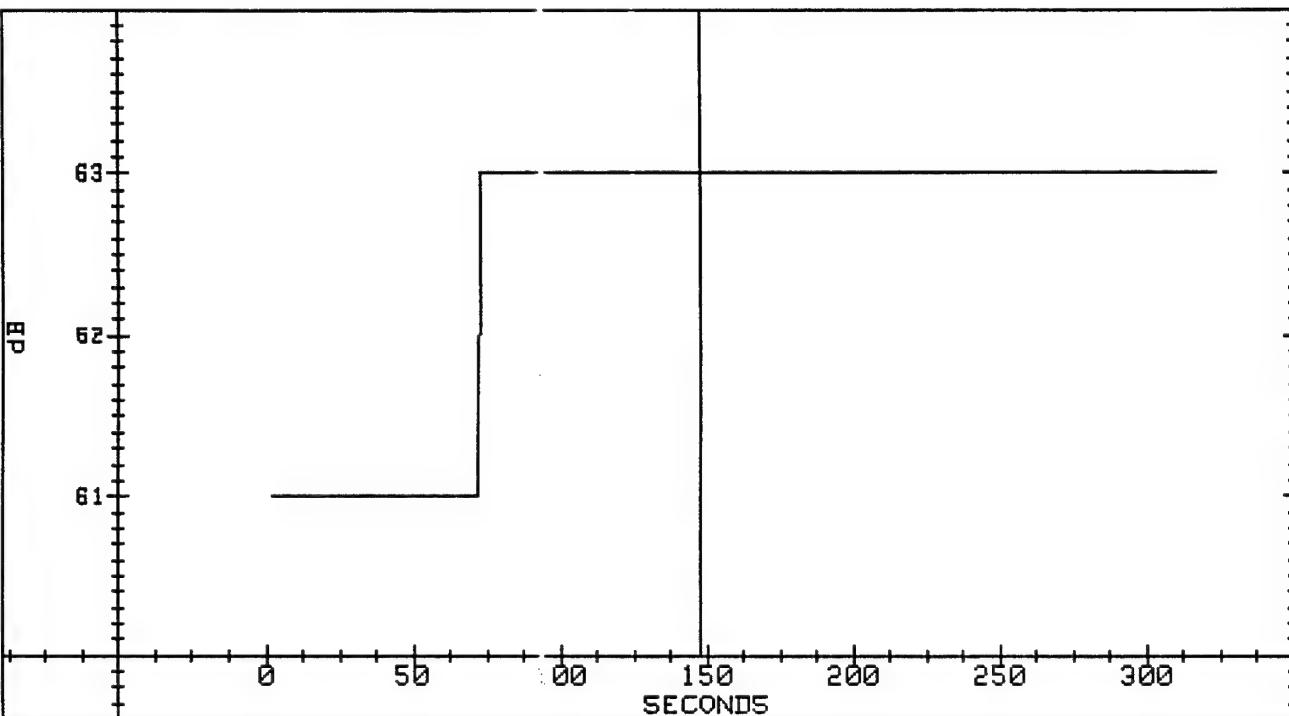
Ch1 RES Attenuation

DAY 179 TIME 3:21 PASS 29 m= 60, sd= 0



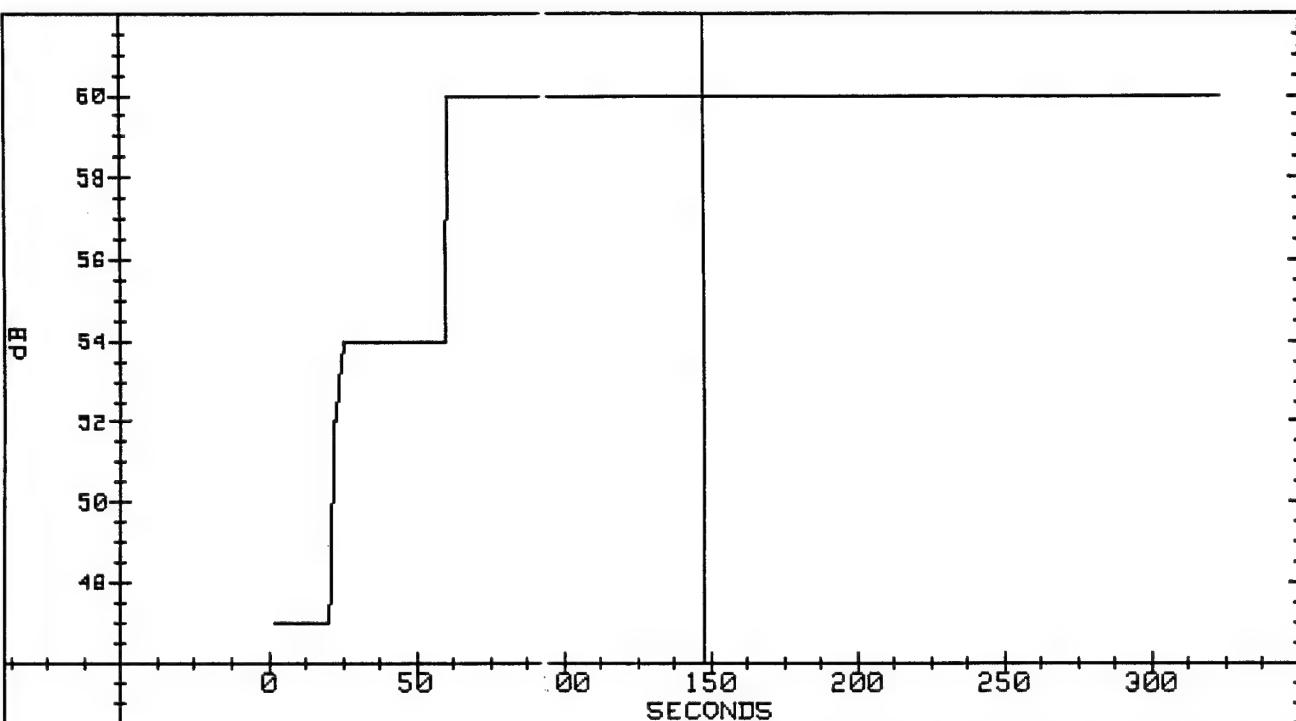
Ch2 RES Attenuation

DAY 179 TIME 3:21 PASS 29 m= 63, sd= 0



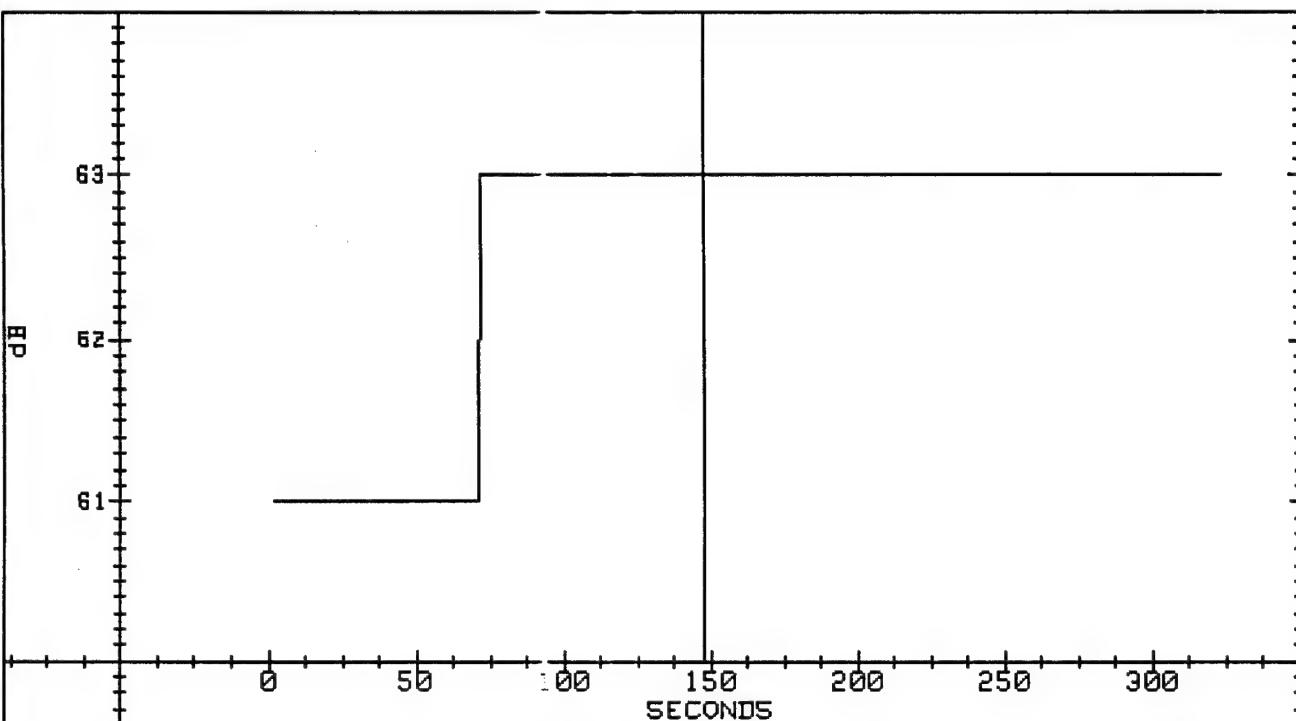
Ch3 RES Attenuation

DAY 179 TIME 3:21 PASS 29 m= 60, sd= 0



Ch4 RES Attenuation

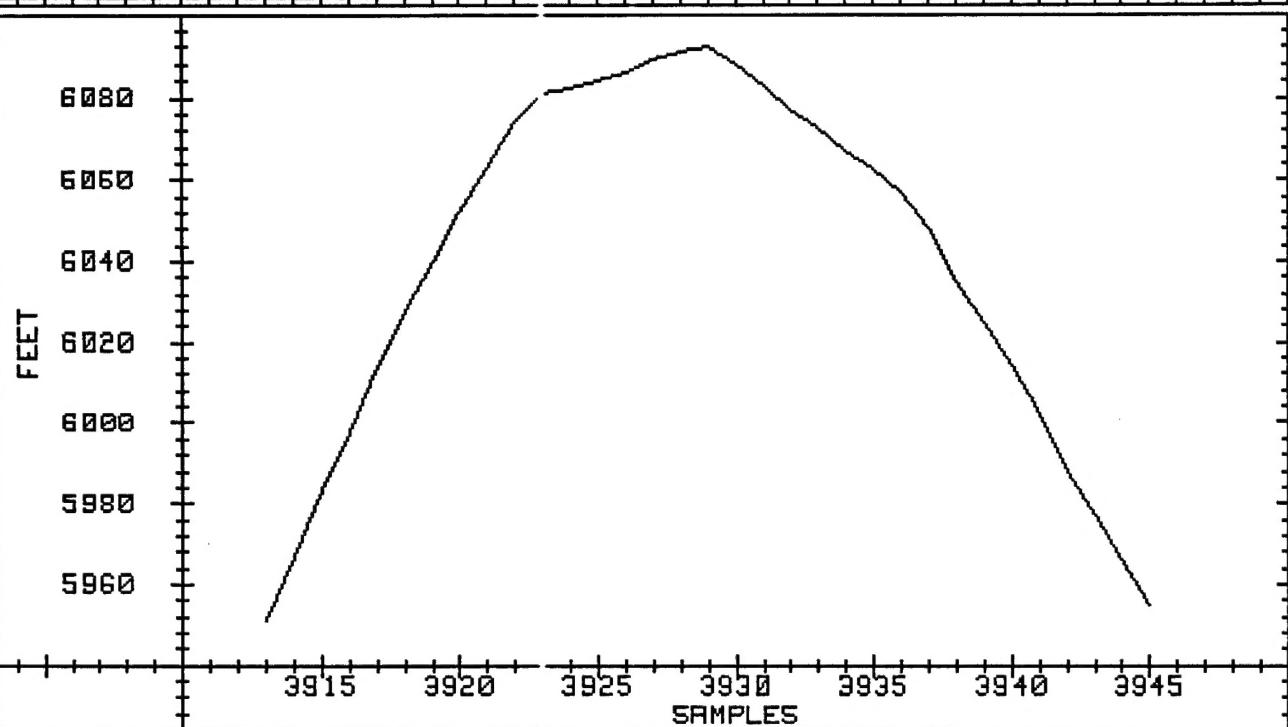
DAY 179 TIME 3:21 PASS 29 m= 63, sd= 0



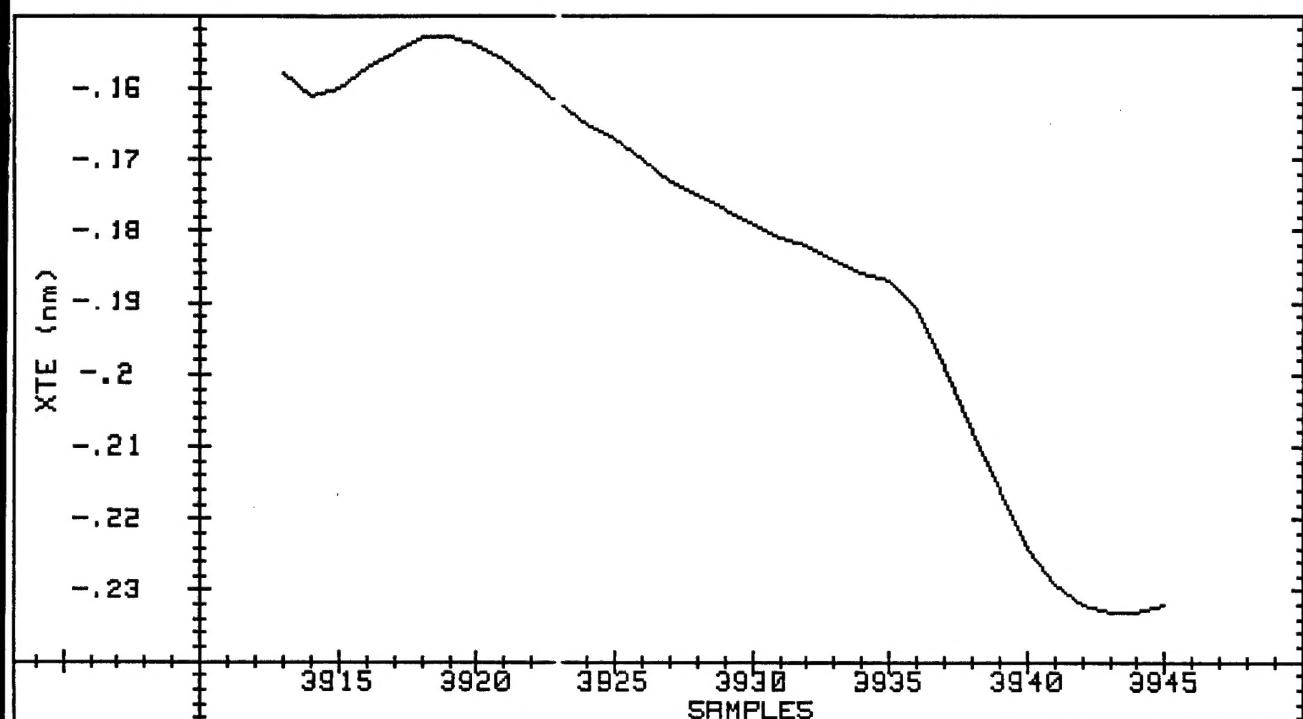
GPS ALTITUDE

MERN= 6039.18 STANDARD DEVIATION= 44.7413
DATE: June 27, 1995 PASS 29

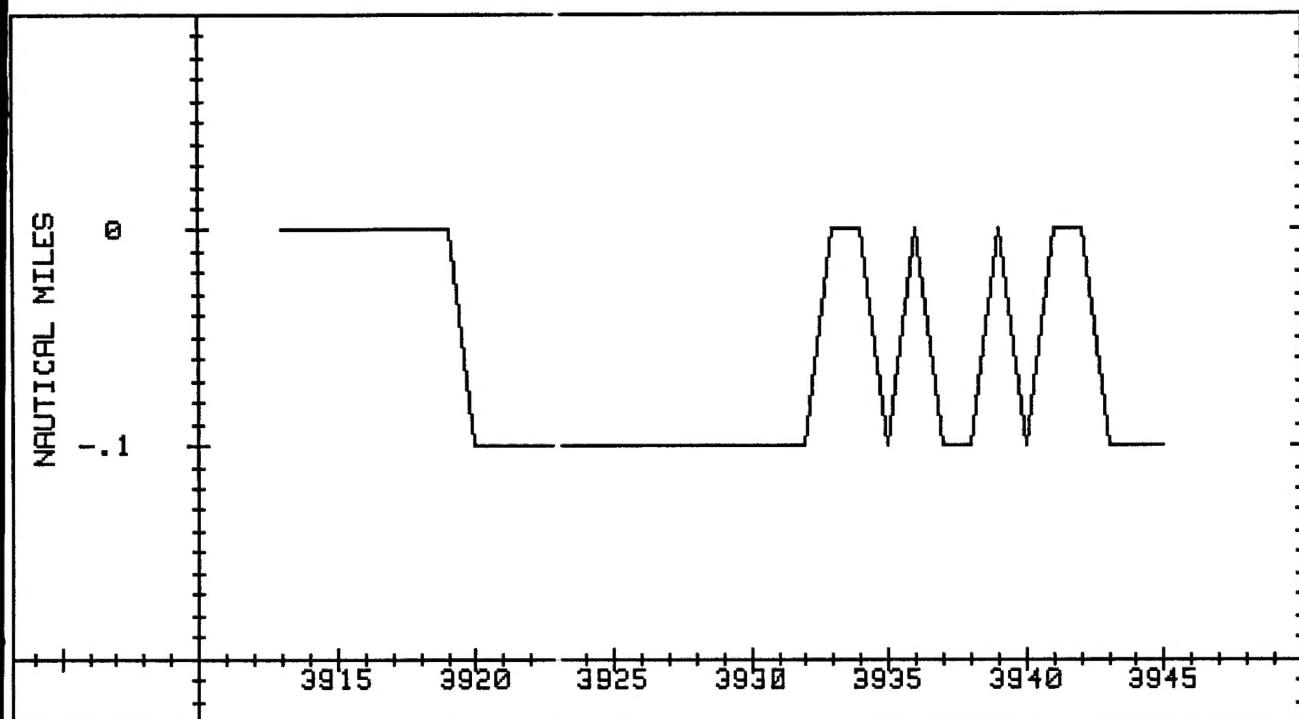
OFF
ON
BAR



GPS Cross Track Error
MEAN= -.163364 STANDARD DEVIATION= .0270295
DATE: June 27, 1995 PASS 29



INS CROSS TRACK ERROR
MEAN= -.0606061 STANDARD DEVIATION= .0488622
DATE: June 27, 1995 PASS 29



Portage, ME - June 27, 1995 - Pass 29 - Xtk. and Alt. Errors
Higher alt. and port are greater than zero

